



PANACEA;

OR

The Universal Medicine,

A DISCOVERY

of the.

Wonderfull Vertues

Tobacco

Taken in a Pipe,

WITH

Its Operation and Use both in Physick and Chyrurgery.

By D' EVERARD,&c.

LONDON.

Charel-yard, nest the West-end, 1650.

M M M M M To Carthyon, north

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TO THE Right Worshipfull

S. James Drax, M. Newman,
Alderman MaM. Phillips,
M. Boggs,
M. Wainright,
M. Jeffreys,
M. Allen,
M. Stacy,
M. Jenkins,
M. Pet,
Capt. Peigar,
Capt. Read,
Capt. Penfax,
Capt. Buller,
Capt. Odiam.

ANI

To all the worthy Merchants and Planters of Tobacco, for and in the WEST-INDIES, and AMERICA.

Right Worshipfull,



T is well known, and confirmed by certain Experience, that by the great care, cost

and charges of the Merchants;

and by the great industry and labour of the Planters of Tobacco in the West-Indies, multitudes of people that are under the present Government, are plentifully maintained, and very many of them get great estates for themfelves and families, and the Customs of it are no small profit to the Commonwealth, I think there is no one kind of forreign Commodities that yeelds greater advantage to the publick; and there is scarce any to be compared with it. Wherefore I dedicate this short History of Tobacco unto you, that are the Merchants and Factors in it, wherein you may at your leifure observe some thing that may conduce to your further content, if you please but to take notice of the great virtues it hath both in Physick and Chyrurgery. But if we reflect upon our Fore-fathers, and that within

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the time of less than one hundred years, before the use of Tobacco came to be known amongst us, (For Captain Richard Grenfield, and S' Francis Drake were the first Planters of it here, and not S'Walter Raleigh, which is the common errour) we cannot but wonder how they did to subfift without it: For were the planting and traffick of Tobacco now hindred, millions of the Nation, in all probability must perish for want of food, their whole livelihood almost depending upon it. So many Druggists, Grocers, Tobacco-Shops, Taverns, Inns, Ale-houses, Victuallers, Carriers, Cutters and Dryers of Tobacco, Pipe-makers, and the like, that deal in it, will prove no less.

The necessity of Tobacco, and maintaining the Plantations of it, is almost as great, if we do but consider who they are that buy it only for their own drinking, and wanted A 3 can-

cannot abstain from it. Sea-men' will be supplied with it for their long voyages: Souldiers cannot want it when they keep guards all night, or are upon other hard duties in cold and tempestuous weather: Farmers, Plough-men, Porters, and almost all labouring men plead for it, faying, they find great refreshment by it, and very many would as foon part with their neceffary food, as they would be totally deprived of the use of Tobacco. The Nobility and Gentry, who find no fault with it, but that it is too common amongst the Vulgar, do ordinarily make it the complement of all their entertainment, and oft-times all their entertainment besides is but a complement. Scholars use it much, and many grave and great men take Tobacco to make them more ferviceable in their callings. Tobacco is grown to be not only the Phyfick,

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Phyfick, but even the meat and drink of many men, women and children. In a word, it hath prevail'd fo far, that there is no living without it; that notwithstanding the vast Plantations of it in the West-Indies, all our corn-fields would foon be turned to gardens of Tobacco, were not men reftrain'd from it by the Civil Magistrate. It is like Elias Cloud. which was no higger at first than a mans hand, that hath suddenly cowered the face of the earth: The Low-countreys, Germany, Poland, Arabia, Perlia, Turky, almost all Countreys drive a Trade of it; and there is no commodity that bath advanced to many from small fortunes to gain great estates in the world. Don Wafee of Amfterdam, who, as I am told, never knew his own name nor parentage, by felling Tobacco, hangs out the fign of Don de Velasco, under whom he orive

was once a poor fouldier, and is called now by his Generals name. But though they that traffick in it feldom miscarry, yet others by the intemperate taking of it, have fomtimes brought themselves and great estates to ruine by it, in whom this Martial Plant hath occafioned more difeases of the mind, than it can cure difeafes of the body, though it be of very great use in Physick.

I confess that Tobacco is a plant of Gods making, and it hath many admirable faculties in it, and the fault is not in the leaf, though it be sophisticated by some, and inordinately abused by others; yet there is some reason to suspect, that there hath been much of the cunning of the Devil, and of mans perverse understanding imployed in the large propagation of it, because that Christians, Fews, Turks and Infidels, almost all mankind, who

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who are naturally so averse from all that is good, and prone to nothing but mischief, are so much delighted with it. But in my opinion, the providence God intended by discovering this herb to Christians amongst the Indians, that by their daily commerce, the Gospel of Fesus Christ should be made known to those Heathen people, who sit in darkness and the shadow of death. The Devil was much afraid of it, as I was enformed by one born in England of Spanish parentage. For when the Christians came first among the Indians, and began to convert them to the Christian Faith, (as there appeared fome symptoms of zeal at the beginning, though it grew foch cold at the fight of gain) the Devil threatned to revenge himself on the Christians, by teaching them to take Tobacco, which having once tafted they should never be able to refrain from it. We see indeed that Christians are so much affeated with it, that they cannot forbear

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it; but the Devil feems to be moreafraid than hurt, to think that Christians now adayes are so zealous of Gods glory, as to make it their aim to withdraw those barbarous people from his fervice; forafmuch as I can understand they have made this the least part of their imployment, not regarding the purpole of God, nor his dispensations for the faving of mens fouls, who defeended from Adam as well as themfelves, and may have a part in the righteousness of Christ as well as they, who had they but a glimple of that light Christians have, would doubtlesse bring forth better fruits than Christians do, who by their jarring and differences one with another, and by minding so much their own profit and advantage, have given great cause to those ignorant people to blaspheme the name of God, and to abbor the Sacrifices of the Lord. Infomuch that when they were told that the Spaneards went to Heaven, they faid, They

Dedicatory.

would go to Hell, that they might not be where those wicked Spaniards were. So that it is likely that God seeing Christians now unworthy of his service, hath reserved the conversion of that people, untill such time as Christians shall be more charitable and more composed in love and unity amongst themselves. I must not tire your patience by writing a Volume upon this subject, less the portal prove too great for the house. I shall onely speak something more concerning Tobacco.

First, It is no great friend to Phyficians, though it be a physical plant; for the very smoke of it is held to be a great Antidote against all venome and pestilential diseases. It is also singular in Clysters against the wind-Cholick, and therefore King James merrily said, That was the way to take it: But the Duke of Savoy who was so cured by it was of another mind, The trist they are altogether for souff

The Epistle

Tobacco to purge their brains. The Indians swallow down the smoke against weariness, till they fall into an Extafie. The upper Scout of Amsterdam, as some report, chews it against all diseases, and likes it better than Partridge or Pheafant. But the ordinary way to luck it from a pipe, and puff it out again, is held the best way to cure Rheums and difti lations from the head. It works fuch contrary effects, that Philosophers contend almost about it, as much as Chymists do concerning Mercury: they cannot certainly conclude, whether it be hot and dry, or cold and moift, for it quencheth thirst, and yet is the fittest shoing-horn to draw down drink, and to make men dry; it abates hunger, yet is excellent to provoke a mans appetite to meat: It is a fit companion for mirth or melancholy; it will make one fleep, who wants rest; yet will it keep a Scholar waking in his study, and a souldierupon his guard. It puts Phylicians to a non-plus;

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non-plus, for it agrees with all ages, fexes and tempers. D. Venner in his Via recta ad vitam longam, allows any man, be he Cholerick, Phlegmatique, Sanguine or Melancholique, fix pipes a day. Wherefore some object, That it is a vain thing. I answer with Solomon, to are all things elie, Vanity of vanities, all is vanity. Yet I should counsel no man to take it, who doth not stand in need ofit; and those that do, to use it with that moderation as is required in the use of all other things. When thou haft found honey eat not too much of it ; Ubi mel, ibi fel, where honey is, there is gall; and in every thing in this world there is something to be avoided. Nature her felf speaks the same to us with a loud voice in this Tobacco plane as much as in any thing in the world. For those two groundleaves that grow upon it, which the Spaniards call Bajcheros must be cut off, and thrown away, they imell and tafte so unpleasantly, that should they be

The Epiftle Dedicatory.

be mingled with the rest, they would spoilall. As therefore the Planters are very carefull to cast these leaves away, fo should Christians be in the use of all temporal things, to cast away all earthly thoughts and defires that are too near the ground, all that is vicious and offensive to God or man, that all their thoughts, words and deeds may be sweet sented in the nostrils of God, that they may be at length transplanted from their uncertain Plantations here on earth to an everlasting Plantation in Heaven, which is the prayer of him for your Worships, and for all the worthy Merchants and Planters of this Nation, who is

> Your Worships in all Christian duty

> > F. R.

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PR EFACE.



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T is an Axiome of Aristotle in the first Chapter, Analys. Post. All kind of Learning, and all Discipline proceeds from

fome precedent knowledge. I suppose that this Axiome belongs to all
teaching whatsoever, that is undertaken
concerning any matter according to the
Rules of Reason, if it be Methodicall
and handsome: and if the Philosopher
doth not affirm the same, same certain
be doth not contradict it. wherefore
because I am minded to discourse of Tobacco by rule perfectly. I am bound to
take great care, that I do it in a fit
Method, me I ought to do; and this I
shall performe if I do it orderly, as is observed almost by all Authours in almost
every

The Preface.

every matter propounded. First Therefore I shall briefly Treat of the Etymologic, or Reason of the Name of this Un niverfall Remedy. Secondly, I shall lay down the differences of st. Thirdly, I Chall frew the Temp rament. Fourthly, I hall teach the time when it muft be Somed, and when gathered. Fiftly, I shall enquire in what place it prospers best. Sixtly, I Ball in brief fet down the way to prepare the Leaves, which few Men know. Seventhly and Laftly, I shall fearch into the singular forces of it, and the known proved effetts, and Soul freak of all Unquents made with Tobacco, Plaisters, Balfams, Lini ments, Cerats, Anodym, &cc. I Shall discover bow to make these to belp the Apothecaries, and findious Men, that every one may be able to provide them bimfelf, and when need is he may bring them out as frem a store-bonse of bis

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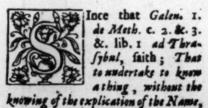
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PANACEA,

Or The

Universall Medicine;
Being a Discourse and
Discription of TOBACCO,
With its Preparation and Use.

The Reason of the Names.



is but to labour in vain : It is my part to Discourse first of the Names of this great Panacea, and of their first Originals, and who they were that first taught us the use of it, which

I shall exactly examine.

Tobacco took the Name from the Name of that Country which is a Province in new Spain, in the We-Indies, or the new World, about Forty foure Miles above Mexico, the Metropolis of Hifpaniola. In this lay the Province Tobacco which was under subjection to the government of Jucatan, (the Spaniards after. ward called it the Province of the Bleffed Victorious Virgin, because in the Year, 1519. Ferdinand Cortefins, Founder of new Spain, won a great victory in that place) here was this Noble Plant first found, that Cures almost all Diseases, and from thence afterwards it borrowed the Name. Those of Pern call it Petum, fo do almost all the people that live toward the Antartick-Pole, or Pici-I.Hift. 11. elt, as Monardis holds , or Perebecennc, as Oviedns will have it (yet this is not the proper name for Tobacco.

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Herl mou Fran made who recei Men . this ! This] 1560 Emba pened

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bacco, but is ascribed to some other Indian Plant by Authours, and it disfers from Tobacco, as it appears to me.

Vulgarly it is called Nicotiana, or Nicosiana, from D. Johannes Nicotius of Ni/mes, who was Counseller to Francis the second King of France, and Mafter of requests afterwards, and of petitions in the Court, who first discovered this Herb to France, (as that moft famous Knight and Sea Admirall . Sr Francis Drake, about the Year 1586. made it known in England) for whose sake it ought to be gratefully received in Memory of him by all Men, unto whomfoever the fame of this healing Plant shall be brought. This D. Nicotius, when in the Year 1560. he was fent by his King to be Embassadour in Portugal. It happened on a day that he went to view a Prison, or rather a work house for fuch as are punished at Lisbon, where at that time the Kings Court was. There a certain Noble Dutch-Man who was the chiefest keeper of he Kings Archives, presented him with

with this Plant, as being a stranger and newly brought thither from the Island Florida; The Embassadour gladly received the Plant, and being rare and come from beyond the Seas, and which he had never seen before he takes, great care to have it planted in his Garden, for he understood before by hear say, of the great Vertues it had to cure Wounds and Ulcers, it having been often used with

happy fuccefs.

Wherefore the Fame of this Herb spread over all Poringall, and the Spaniards, and Poringals speak much in praise of it, and it began to be called the Embassadours Herb. Not long after he returning for France, preserved some of the Seed of it to Catharina de Medicia, Queen of France; Shee understanding that this Plant was excellent for curing malignant Ulcers and Putrified Sores, and admiring at it, as being a new Universall Remedy gave it her Name; and after that, all France over, it was called the Queens Herb, and Catharinaria, and Medicia. The Virgini-

Pares pra- led the Queens Herb, and Catharifut in thi- naria, and Medicea. The Virginirurg- ans call it Uppower, others call it the

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great Priors Herb, because he sometimes Sayling from France to Portugall, and being entertained at Lifborn, by D. Nicotius, had many of these Plants bestowed upon him, which he cransplanted and made th: m to grow in their Gardens. Most Inhabitants of Hifpaniola, call it Cozolba. The Lombards call it Tornabons, See Petr. because it was still brought into Italy, Martyr, Dec. 1.1 9. by meanes of the Nephew of Alphan- Of the Sus, Tornabonius, Bishop of Burg. new world. who was also Bishop there himself, but at that time Embassadour with the French King. By Schwenckfeldim. and others that spake highly of the Vertues of it, it is called the Sacred Plant: Camerarius calls it the Vulnerary Indian Plant; others call it Piperina: but upon what reason I know not. They of Lions call itthe Antartick Bugloss , by Renealmus, Baervoyeis. Dodonaus a moft famous Writer upon Plants, gives it the name of Henbane of Peru, but falfly, as I shall shew in its place. Cordus gave this name not to Tobacco, but to Strammonia. The Reverend Cardinall of S. Cruce, when he was fent from

from Rome the Popes-Nuntio into Portugal, brought it first from thence to Rome, and therefore there they called it the Herb of S. Cruce. Some call it Sana Saneta, not without a Catalogue of the great praifes of it, fetcht from evident experience. The Dutch's and English call it Taback. The Germans name it Heylig Wundkrat . Indianisch Wundtkraut, Indianifiche Beinwelle. Theuer the French Cosmographer, (who was in that Expedition, which Anno. 1555. Nicolaus Durandus Villagagnonus made to Brasil) in his Book call'd Antarctick France, names it Angoni. moifine, and boafts that he was the finder, and the first man that brought this Seed into France. I know not whether he spake the truth; It feems to me to be an old Wives flory. Fabius Columna mentions Arabian Tobacco different from ours; which we do not know. Read what the most Learned Columna hath written in his Yuxeam of Plants that are not well known p. 142. There are many uncertainties in the writings of the Arabians, for that Nation bath but

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but a few things of its own, and commonly the Arabian Authors have not well fet things together, because they understood not rightly the Writings of the Greeks. Also the most famous Herbarist, D. Guilandinns, in his conjecturall fynonimas of Plants, calls this Plant Onofmyos of Agineta.

The Differences.

TE have observed three forts V V of Tobacco, the greater with broad Leaves, the greater with narrow Leaves; and the smaller Tobacco.

The first Kinde.

He broader Leafe large Tobacco, A hath a thicker ftalk, and fends forth shoots from the Roots, that are wooddy, and are fortified by man ny small Fibras, they are White, but inwardly Yellow and bitter, the Stalk is as thick as a ftaffe, and fometimes grows three Cubits high; it is green and hath a thin down over it,

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it is Unctuous especially when it is grown up, and is full of a White Pith, and hath many Leaves; this is Fenced about from a broad Basis of the windings of the stalk, with Leaves resembling great Comfrey, but they are bigger, and about the middle more large, and as it were branched or Gibbous, and by degrees they grow to be very sharp pointed, they Thine with a watry green, having no pleasant smell; they are full of juyce, and are smeered over almost with a clammy Humour, fo that it will ftop fmall Creatures which fit upon them; they taft fharp with some clamminess; Amongst the frequent Branches of the Leaves, the Flowers come forth fingle out of the indented Leafy cups, franding severall upon a firme stalk, and from a narrow Basis, towards the upper part they are by degrees dilated as it were into a bordered Pentagon, refembling a Trumper, being White and pale Red, (which is called Carnation Colour) they Bluth; In the middle whereof are five threds that compass about the stalk, that is of a Pale Green, and Ricking forth, when

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when these decay, there follow the hollow long Cups, that something end in a point at the top, that are full of very small duskish or reddish black, but at first with green round seeds. The Herbalists vulgarly call this the Male Tobacco. Some think this is marry, Dioscorides speaks of; but I know not how those words can concern Tobacco. If conjecture may serve, that marry seems to be great Comfrey from the likeness of it, as the samous and learned D. Banbinan observes in his Synonims's, wherewith he adorns Matthiolius.

The Second Kind.

Reat Tobacco with narrow I leaves hath woody stalks, cut in many jags, and hairy, with infinite sibras; the stalks are about a foot and half, plaited, green, full of branches, to which by a small stalk are sastned leaves like to Nightshade, which is called Bella Donna, yet somewhat larger and greener, downy, thick, full of juice; the slowers out he tops of the stalks and branches are purple colour,

colour, and represent a round narrow Cup toward the basis, and are of a pale green. The husks succeed the slowers, and are rather long than round, and at the top they have a long surrow, in the middle whereof there comes for that thick little point, but very short and red. From the extream part of each surrow there is drawn a trench to the basis, which is apparent in a yellow circle. The seed contained in it is small and yellow.

Agidin Everardus faith . That this kind often springs from the seed of Male Tobacco. For (faith he) if any of the grain of Male Tobacco fall to the ground, when it Swels with seed, namely, to the ground, where Tobacco grew before; this narrow leav'd Tebacco will doubtless grow up there the next year, and this is called Female Tobacco. Also if you sow the seed of Male or large leaved Tobacco in ground not bot enough, or which is barren, it will produce the Female, for the Male, in such abundance, that you Will hardly get it out again, but it will yearly spring of it self. Renealmus

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almu cals this fort wain, because the leaves are born up by a small stalk, which the Greeks call wife. Pennius cals it, Nicotiana minor. Lobelius, Tobacum minuu; Herba Sana sansta minor. The French call it, Nicotiane Petite. The Dusch, Kleyne Taback. The Germans, Schmalblaterch, Indianisch Wundthran.

The third Kind.

"He third fort, called the leffer I Tobacco, is but a foot and half high, and farre lower than the former. The root is white, going deep downwards, the length of a span, as thick as ones finger, and is much fet about with leaves on the fides. The falk is round, fat, with fine down upon it, of a pale green, upon which the leaves are green, fomewhat round, fat, full of juyce, somewhat hairy, not unlike to mad Nightshade, but they are greater and more white. The flowers are of a yellow pale colour, flanding in dented leafie cups. farre smaller than those of great Tobacco, they are hollow, and are unfolded

unfolded into five blunt once divided edges, and when thefe fall. there remains roundish heads, that are full of pale wan feeds, like to the small ones of the former Tobacco, but they are bigger and round. Banhinus cals this kind yellow Henbane. Matthiolus cals it, the third fort of Henbane. At Lions they call it, black Henbane. Dodonem will have it yellow Henbane ; fo will Lonicerus. Gefner and Camerarius, Tabernomtanus, cals it Henbane of Peru. Gesner cals it Priapaja of the Garden, and Casalpinsus a kind of Tornabona. The Neotericks call it fmaller Tobacco like Henbane; and at Lyons the leffer Tobacco. The Germans name it Wundbilfam, gelb Wundtkraut. Lobeling cals it a doubtfull kind of yellow Henbane, with leaves of Nightfhade. But I with the most learned Herbalist Dalechamping, do not think this herb can be referred to Henbane, for their faculties are quite contrary, for the feed of this tafts fh arp; as also the leaves, if you chew them they are a long time of a hot tak in your mouth,

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and it cannot be extinguished, but in long time; and this is a great argument of heat. Wherefore the famous Donaness did not well to call it Henbane of Pern, nor any of the reft, for it cannot be referred to any kind of it, for the leaves are notably acrimonious, which argues a hot and no cold temperament, like to Henbane. Noble Clusium cals this the fourth kind of Tobacco.

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The Temperament.

That concerns the faculties of the Male Tobacco (for in this Discourse I chiefly treat of that) there is great diffention among learned men. Monardes holds it to be hot and dry in the second degree, and moderate in the rest; and Dalechampium holds the same. Casalpinum saith, it is hot in the first, and dry in the third degree. Edward Done an English Writer, holds it so be hot and dry almost in the third degree. Others deny it to be hot, but say it is extream cold, because the smoke troubles the mind, and brings a man

almost into an Extasis; and therefore they referre it to some kind of Henbine, as I gave notice of before. Banbinus he faves as much, moved thereto by its stupefying quality, and likeness of the forme that it hath with Henbane. Mercatus faith, it is extream hot. Facebus Gohorius dares not give his opinion, but puts it off to some other time. Lobeling thinks it is hot intenfly in the second degree: and he answers Dodonaus, that it bites in tafte, and is hot in the mouth; yet Dodonaus afterwards changed his opinion. I with Renealmus fay, that the green leaves are hot and dry in the second degree (which temperament the Sunne gives to them, as it doth to the root and stalk by its heat, and the Moon gives them their color) but when they are dried, they are hot and dry in the end of the third degree. Tobacco is acrimonious, and causeth thirst, troubles the mind, makes the head heavy, which could not be, unless some hot vapour flew up, and fill'd the brain. They do but sport, that say it is cold, for it hath alf fymptoms of heat.

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1 T is fowed in the Island Hifaniela, I as also in other hot clymates about Autumn, where almost all the year long it brings leaves, flowers and buds. It will grow with us, if continual care be to help it. It is not fowed with us before the warm Spring, that is, about the Ides or Nones of April, as the weather is hot; for it is chill, and at the first fall of the leaf or cold weather it fades, wherefore it must be well fenced from cold. Noble Clufing thinks it should be fowed in Angust or September, because the fmall feed lieth very long under ground before it spring forth, and being fowed in March, or in the Spring, in Angust it will bring flowers, and now and then feed. But we find by experience, that the feed of Tobacco fewed in April, in our Countrey, fprings forth more hap. pily and fooner, and the flalks are more fruitfull and longer, and the leaves are farre greater and fatter, than when the feed is fowed in September.

tember. The Plant is gathered, when the Sunne is in the 18, 19. and 20. degree of Leo. Being once planted, when the feed comes to beripe, it will fow it felf plentifully of its own accord in many Gardens and Fields, whether it is carried by force of winds. It is fowed in the increase of the Moon, and cut when the Moon decreaseth. The feed is dedicated to Aquarism and Mars, being very hot, which quality it hath from Mars. Winter it can hardly be kept but in pots or woodden chefts, or little baskets made with offers, and that in Panteries, and places under ground, or hot houses, or flower. and fo it may be preserved without hurt for three or four years. Ca-Salpins would also have the stalks planted, yet Bafilisu Befterm Eiftettenfis faith, he tried that in his Garden, but it proved in vain.

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IT loves a fat and pleasant soyl, the Bed to be plain, smooth, black, well dressed; it loves not fandy nor clay ground, nor doth it delight in gravel; wherefore it is no small charge, if every other year it be dunged with Oxe dung; some sift ashes very sine and mingle them, but that comes forth very slowly, and makes it long before it come to perfection. It wonderfully desires water, and therefore it must be watered, especially in such dayes as are very fair when there sals no rain.

Let the Linds upon which you fow it be long, and about three foot broad, that by the furrows between he may pass on both sides, that must pull or cut off the superfluous leaves, (for otherwise these will suck to themselves the force and nutriment of the greater leaves) dig the earth with your singer, or a little stick, and make a hole in it, and put into it ten or twelve grains, and put a piece of Oxe dung both at the botom and top

of them. Do not put fewer feeds into one hole, for they are fo small, that they would be choaked and loft. It hates cold exceedingly (as I told you;) and therefore you must raise a wall with clay or stone upon the North side of it, that it may be open to the South Sunne, that so in Winter it may receive some warmth, for then it must be terced and covered with mats and straw.

The Proparation of the Leaves.

IT may at first be sowed in an open field, and when it is grown forth to the height of the leaves or tender branches of Coleworts, it may be transplanted, and be set apart in the foresaid long bed, three soot broad, and they must be planted in that order, that every plant may stand three or sour soot off from another, least when the plants grow big, the greater leaves should touch and hurr one the other, and this would prove to be very great dimage. But when they are growne so great that the slowers begin to peep forth, presently before

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before the flowers open themselves, you shall cut away all the young shoots and tops, with all the small twigs on the fides, and the leffer leaves that use to grow between the reft. For Tobacco must not bring flowers or feeds, if you intend to preferve the force of it entire. Moreover at the lower end of the flalk of it there are commonly two leaves found (the Spaniards call them Bascheres) which take away the pleasant taste of Tobacco, if they be mingled with the others. You shall therefore be fure to cut off thefe with the rest that are superfluous, and do not use them in any use with the rest (for they tastill, and do not fmell well) and leave but ten or twelve g eat leaves upon the flalk commonly, when the forefaid smalleaves with the shoots on the top, and the two lowest, and such as are to be rejected are cut off But have an esp cial care that the Tobacco you defire to fell into thefe Germane Countreys, England, or France, you suffer it not to runne to flower, for all the forces of ic

it will be loft when it flowers.

Moreover you shall mingle and bruife together the foresaid smaller leaves cut off with the small sprouts and buds of the flowers, (utterly rejecting those two greater leaves at the bottom called Boscheros, as being good for nothing, and upprofitable) and having preffed forth the juice, you shall boyl it in the best sweet strong Spanish Malago wine (others adde to it Dants Ale, and you shall skim it well, and when it is well purified, you shall put in good store of falt, that the juyce may be as falt as Sea water, then cast in a good quantity of Anni-feed, and Ginger beaten into very small pouder, and let it boyl one hour longer, then let it fland, that the dregs may fettle to the bottom, and pour off all that is clear.

You must keep this juyce thus boyled (the Spanise call it Caldo) in a vessel close stopt, that the forces may be kept within, untill such time as the greater leaves, which you lest upon the stalk (for in these resides all the strength of the plant) are grown

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full ripe, which when they are come to, you shall presently cut them off next to the flalk; and you fhall fet the foresaid juyce or Caldo upon the fire, and boyl it almost (yet it must not boyl, for should it boyl, the strength of it would flie away to nothing) and you must dip all the faid leaves in that juyce severally. But if it be too troublesome to dip all the leaves in one by one, you must spread a woollen cloth on the ground upon a floor, or in a barn, or place where the wind hath no power, though it be in the open air; and upon this you shall lay a row of leaves, as close as to touch one the other, and upon this rank of leaves you shall lay another rank of leaves in the fame order, yet not wet in the foresaid juyce; and taking into your hands a great watering veffel, which you must dip into the faid juyce or Caldo, you shall water by fprinkling all the forefaid leaves, and those being watered, you shall lay upon them a third and fourth rank, and so forward a fifth rank, and upon that a fixth of new leaves. fprinkling all the rows with the forefaid

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faid Ewer, or with a brush, still obferving the same order, untill such time as the leaves thus disposed in or. der, rife to be a foot and half high. Then you must cover the leaves, yet hot with the liquor, newly sprinkled upon them, with other woollen clothes, that all she rows of the leaves may hold their former heat and lie to ferment. But if that heat or fermentation cannot be procured by those woollen clothes covering the leaves, you may lay Horse dung upon those clothes, to raise the heat, to cherish the leaves, and make them fland in a conflant fermentation. But that they may not grow over hot, you must often look upon the leaves, untill they change colour And if by the heat they begin to look any whit red, and to appear fo (which may be feen, if the leaves be held against the light) it is time to uncover the leaves, and to take the coverings away ; for being too much heated, they would grow black, which is a fign of burning, and of corruption, and there must be principal care taken that that befall not, for this

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Tobacco being thus warmed and fermented, the forefaid leaves muft be hanged up with finall packthreds. thrufting the needle through the greater nerve of the leaves, that is on the backfide, and to they must be hanged up in a windy place, but not very high, where the Sanne fhines; for by the Sunnes heat all their forces would vanish. When the wind hath dried them enough, they must be bound in bundles, binding them with cords as hard as you can, fo that each bundle must be as great about in the circumference of it, as a great Spanift Daller; but above all, take care that they be most closely bound together. The leaves of Tobacco thus prepared, must be diligently and closely pack'd in veffels, thrufting them in as much as you can. And by this prepar ring and preferving of Tobacco, it will have excellent force and vertuc.

Note.

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Note (in Spanish or Malago wine) This way of preparation is of later time, and invented by the Spaniards for the use of themselves and strangers. For it is probable that the Indians, that are the Inhabitants (until such time as wine was brought unto them from other parts beyond the Seas) used wine of Dates, or of Coccos, or some other liquour, (not to say piss, which is reported of them to their disgrace) to prepare this juyce or Caldo: also the use of Aniseeds is from the Spaniard.

To stand constantly to serment) we say Broyen, This signifies a moderate heat, next to strong heat, yet not come so farre as to burne, but onely to softer and ferment. Such a heat Depilatories bring to the parts, and Birds to their egges, when they sit to hatch their young. The Egyptians produce such a heat in their Ovens, when they by Art batch abundance of Hen Egges, as Bellonius

observes.

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Some despise the ase of Tebacco that grows With us, yet Experience teach. eth us that our green Leaves will cure Wounds, Ulcers, and other Diseases, fooner and more certainly, than the dried Leaves brought from the Indies; It is credible that those dried Leaves coming fotarre, have lost great part of their Arength oft-times. Others there are that maintain that our Tobacco Leaves dried and prepared after the Indian manner, are more effectuall here, than the Indian Tobbacco, becanse that our Leaves be they what they Will, agree better with our temper, and we can have the choice of the fresh Leaves better than of those that are brought to su from other parts, whereof the greatest part is to be suspected, as being most frequently Sophisticated, (Agrippa lib. de Vaintate Scient. c. 84) Saith, Adulterated, or Such as are to be rejetted, or are Suffocated in the Ship in the Pasage, or Sobbed in the Water, or corrupted With age, or not gathered in fit time and place, Whereby there way be danger. The Same Author Saith Well, it is folly to fetch out of India what We have plenty

at home, not being contented with our own Lander Sea , prefering Forrain Commodities before those of our own things cofily before those that are cheap, and things bard to come by, before such as are case, desiring to fetch them from the Worlds and &c. At this day in Zeland there is a Merchant that foweth yearly about five Acres of ground with Tobacco Seed with great coft , and the Plants that grow be dreffeth after the Indian manner, be drieth and prepareth the Leaves as the Indians do , and he fels them overy where, which bitherto bath brought bim no Small profit. And now almost ten years , the use of this Tobacco bath so prevailed here, that men do not much care for Virginy Tobaceo, or What comes from other Coun-Briet.

The Vertnes:

THe Spaniards have learned that Tobacco, Tobacco is an enemy to the most an Antideadly Poyfon that the Cannibals dote to ? poylen. were wont to dip their Arrows and Darts in. It happened that some

Cannibals

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Cannibals Sailed in their beats to St Johns Port, to shoot all the Indians and Spaniards they could find and kill them with their Arrows, when they were Arrived they wounded some Indians and Spaniards, and fome they Thefe wanting Sublimate (which they were wont to frew upon their Wounds in such Cases) they were taught by an Indian to annoynt their Wounds with the juyce of Tobacco pressed forth, and to lay a bruifed Leafe upon them : The pains prefently ceased, and all those Symptoms which use to attend such Wounds, the Poylon was quickly conquered, and the Wounds were cured.

It chiefly opposeth Hellebore; the Against King of Spain would needs try this, Helebore, and commanded a Huntsman to wound a Dog in the throat, to strew Hellebore into it, and after that to put in plenty of the juyce of Tobacco, and lay on the bruised Leaves; this was done presently, and the experiment was made, the Wound being bound up, in a very short time the Dog was recovered, which made them

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all to wonder at it. I shall here adde what Adigius Everbardus, reports concerning his Panacaa; It fell out that at Antwerp one gave a Gentle Womans Cat that was fomewhat fierce Poyfon to drink; The Cat run madding up and down, trying but in vain to vomit up the Venome. The Gentle Woman thought of a way how to wrap up a Leafe of Tobacco bruised in butter, and to thrust that down the Cats throat, this was done, and the Cat foon caft up the Poyfon and efcaped.

It flaies hunger and thirft.

It is worth observing what the most Learned Monardes Writes, that the Indians do stop hunger and thirst by the use of Tobacco in this fashion. They burn some shels of shell Fish of the Rivers, and then break them like Lime, they take as much Tobacco Leaves as of this Lime, and they chew them untill they come into one Lump, & of this they make Trochesks greater than Peas, and they dry them in the shade, and keep them for their use, when they journey in defart places where they cannot easily come

come by Meat or drink, they put one of these Pellets betwixt their lips and lower teeth, and they fuck it, and they fwallow down the moisture that comes from it instead of meat and drink, when that is spent they take another. This way they will live without Meat or Drink for three or four daies, and be never weary or lofe any firength; for by continuall chewing of these Pellets they draw Flegmatique Humours from their Brains, which their stomach digests into nutriment for want of better food. Pling, 1. 7. c. 2. Reports See Strabe that at the furthest part of the Indies lib, 19. & Eastward, toward the Fountaine of Cal. Rbs. Ganges, there are men called Aftomi, digin. lit. that want mouths, and live only by the Aire, and fweet smels they draw in by their Nostrils: they have neither Meat nor Drink, but they live only by the fweet and fragrant fents of Roots, Flowers, and wilde Apples : which could not be unless they were truly nourished : for life and nourishment are almost all one. 70hannes Alexandrinus opening that place of Hippocrates fexto Epidemio-

Lacrt. L. 9. de vit er morib. Pbilof.

rum, faith, that Democrisus the Abderise a Philosopher (when the Feaft's of Ceres was nigh, being requifted that be would not pollute bus bonfe) lived onely with the vapour and fent of Honey for four daies. This is the opinion of some men, from whom he relates it, but others fay it was done by the fmell of new bread hot from the Oven, Oribafine, I. Aphor. Com. 12. mentions the fame thing, faying, The Philosopher relates that one Man lived forty daies by the fent of Honey. But here is a most notable mistake to put 40 for 4 but by the figures it might be quickly overflipt.

Walleriollib. s. lecor. commuu.

Cz'ius L we read in the Book that hath that 34 cap. 31. Title, who ever was the Authour, that Ariflotic lived for fometime only by the finell of an Apple. there are that dip hot bread in good Wine and apply it to the Noffrils of fick people; and if we apply it likewife to the Temples and fides, it will very much restore strength. Also Conciliator Aponenfis reports that he

Ferrer 1.9. Meth.

used to restore his life, when he was dying, with Safron and Castoreum bruifed and mingled together with

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Wine, and that he gave that compofition to old people, and it did them as much good by fmelling to it, as by drinking it. But thefe are no wonders, for as by Meat and Drink, whatfoever of the folid fubflance is walted, is repaired again, so by Ayre and smoke is regain'd what is spent of aeriall, and moift substance. therefore Ayre and smoake only, (which is nothing elfe than a thin fubstance and aeriall quality) do nourifh , (as Galen teacheth elegantly , Whether 4. 1. de Sanitat. tuend. c. 2.) much the imoke more will an Odoriferous quality per- of Tobacform this, when it is mixed with a co can quality that is friendly to nature. Al- nourifh. to Mathielm after Theophraftus reports that the Scythians will be content with Licoris only for ten or twenty daies, and defire no other Meat or drink.

Object. 1. Truly for the Negative part verymany Arguments may be brought, as that of Ariffotle, 2.de Anima, c. 3. Where he faith, that touching is the fense of Nutriment, as if he had faid, that aliment, as it is tofted, is the Object of touching, for taffing

is a kinde of touching, wherefore smake being not to be touched cannot nouris.

Object. 2. Again, Nothing can give nourishment to a body, unless it first concotted in the Stomach, Liver, and Spleen (as Galen saith, 1.de temper. c. 1.)

Object 3. The same is the matter of Nutrition and Generation of the same, (Galen 1. de sem c. 16.) wherefore Manbeing not Born of smoke, cannot be sed by smoke. Many more Argu-

ments may be urged.

Answ. We answer that smoke may be understood two waies. First, Formally, and then it is an insensible quality different from the first qualities, yet resulting from the actions of them. Secondly, Materially, that is for the substance it is inherent in, and that is Tobacco here. Now this is hot and dry, to be considered of for its heat and thin substance: I say then that an Aromaticall sweet smell doth resresh the forces, and strengtheneth the brain, heart and stomach, for it is a most welcome quality to these parts, and therefore it preserves

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their temperament and substance; and the vitall and animall sprits are renewed and made most fit for natures operations, by a smoke joyned with a fweet fent, and fucked in with that Aromaticall Vapour.

Apposition and Fasting together, Another must go before Nutrition, and this question. fume feems to be to thin and fimpler than that we can imagine it can glew and fasten any where : therefore it Arg. 1. cannot be faid to be the matter of

nourishment.

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Secondly, Water cannot nourish at all. (4. de usu part. and 3. acut. Com. 17.) Therefore smoke that is more thin and unmixed cannot nourifh, and Galen faith 10 Meth 2. 9. That the Liver receives no profit by the Agre that is drawn in, and of things we Eat and Drink, the Liver bath less profit than the ftomach; yet it Confirreceiveth some benefit as it is manifest; mation. and that reason is confirmed by Galen's Doctrine, 3. de ufu. part. c. 1. and often elsewhere, when he faith, That the common, and greatest, and first way, of nourishment is by the Mouth, and from thence the food

is carried to the Stomach, as to the common Store house for all the parts, and fet in the middle of the living Creature, where being once concolled it printrateth to the liver to be turned into Blood, whereby all the parts are fed; but this Smoke is net Suckt in by the liver to be concocted into Blood therefore it cannot nourifu.

For the other GJe.

Not

But Hippocrates may be produced for the other part, lib. de Aliment, where he fairh, that an Aery fmoke drawn in by the throat may nourish, his Words are, The beginning of nonrishment are, the Agre, Nostrils, Month. Thront, Lungs, and Breath-

ing, &c.

To un y this knot, observe, first, That a man being in continuall motion, and confifting of a double matrer, namely Earthy, and Watry, which forms the folid and fleshy parte, and of an Aery and fiery, which forms the Spirits, another principle of life; Hence it is that he wants a double matter to repaire the decayed and diffipated fubstance of them both; Namely, Meat and Drink to reftore Earthy and Wa-

try

try part confumed, but Fire and Water to make up the spirituall part, as Galen doth plainly teach, 1. de sa.

mit , c. 2.

The second Note is . That though Hippocrates doth fay , (lib. de Aliment, now cited) That the Spirits are nourished , yet they are not truly nourished, fince they are not the true and living parts of the body, nor have they any naturall faculty to nourish them . whereby they may change Aeriall matter like themselves, into their own substance, but they are perpetually bred fresh, by the most powerfull force of the heart and strong hear, tempering the thin vapours of blood with the Ayre that is drawn to it. But Hippocrates faith they are fed because the life is perceived to be very much recreated and refreshed, when the proper inftrument is refreshed, and again, when the Spirits are decayed, the life deprived of its proper inftrumentt decaies also. Wherefore the Spirit is bred, not of its own faculty, but from that which is inferted into all the principall parts; and they are bred che

the same way almost as the Chylus is made in the stomach, and blood in the Liver; yet not so as if the Spirits as well as they, were the matter of nutriment, for they are so thin and subtill, that they can stick and joyn to no part.

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These things being first laid down it will be easie to answer the contrary

Arguments.

To the first I answer, That the Ayre's not joyning needs not trouble us, nor the unsitness of it to nourish. For we do not think that the Ayre doth nourish the solid and slessly parts really; but being so mingled as I said, and concocted by the strong heat of the heart, I maintain it doth goe into the substance of the Spirits.

To the fecond the answer is easie.

For though the water alone be unfit for nourishment, yet mingled with other things that nourish, we find it

gains a nourishing condition.

Answer to I answer to the Confirmation, the ConThat it is true that Meats and Drinks firmation. can indeed be converted into nouriffication, no where but in the fromach

and

and liver, but I deny that the Ayre wants those Transmutations. But

to return whence I digreffed;

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of

Thomas Hariot in his description The eof Virginy, reports that Tobacco is fleem of of Virginy, reports that Tobacco fo much effeemed amongst the bar- amongst barous people, that they are perfwa- the Barbas ded their gods take delight in it alfo, risus, wherefore they kindle facred fires. and instead of Sacrafice they cast this in in powder, and when they fail they will cast the powder of it into the Ayre, and Water. They observe the fame custome) faith the fame Authour) making firange mimicall apifh gestures (sometimes stamping the earth with their feet, fometimes leaping, fometimes rejoycing, clapping their hands, and lifting them up on high, fometimes looking towards Heaven, and speaking incongruous words) if at any time they escape any great danger.

I cannot let that pais, that you shall hardly meet any one of these Barbarians who hath not banging about his neck a small bundle of Tobacco, with pipes made of Palme tree Leaves, and who also taking with his

compa.

companions, doth not draw the smoke of it as through a tunnel, by his mouth and Nostrils, until he be almost in an exstasse.

It takes away wearine(s-

There are fome of them who to take away weariness, and to be refreshed in their labours, make use of this fmoke, and we found faith Monardes, that by their example, our fervants and the Moors that came into the West-Indies from other parts. would do the fame , for being weary by much traping and dancing, they draw it in by their Month and Noftrils. And the same thing befals them as doth the Indians, for they lye as if they were dead for three or foure houres; after this they are lufty and are better able to endure labour than they were before. And they take fuch delight in it , that they will now and than go out of mens fight to take it in pleasure, though they be not tired. Sometimes they grow fo mad by it, that they will kill their Mafters, who are carefull to burn their Tobacco, that they may take from them the occasion of this idle pleasure. What need more words, I faw fairly Monardes.

Monardes, our fervants and the Moors, who were not suffered to be drunk with Wine, to make themselves drunk with this smoke, wherein they take no fmall delight, and they boaft that it takes all wearinesse from them , and that they fuffer no hurt nor damage by taking of it.

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Referre to this what Alexander ab The Soy-Alexandre, 1. 3. c. 11. bath left to be strang-Posterity, that the Scythians when ly drunk they defire to be drunk, and abstain with from Wine, that they may not break smoke. the custome, they cast bundles of Max.Tyri-Herbs into the fire , and fuck in the Serm. 11. fmoke, and fo become as drunk as if Thraciant, they had dranke Wine. So it is a See Pomtradition concerning the Thracians ponius, Methat at their banquets they go about 14 1.2. Solitheir fires, casting the feeds of Herbs The Bainto the fire, and the fume of that bilonians, will make them like those that are Herodotus drunk, and they beforted as if they ! 1. near drank Wine, even like those that the end. tafted the juyce of Nepenthes, who an Pricita. supposed forrow to be removed by it. Alfo the Babilonians would make themselves so drunk by kurning

mus. c. ₹.

fruits

fruits of Trees, and drinking in the fmoke, that they would fing and dance.

After the same example the Indian Priests which they call Bulgiti, being, in confultation concerning the event of any business, were wont to drink the smoke of Tobacco, to make themfelves mad, and to enquire of the Divel concerning any business; For the Indians were not accustomed to make warre, or to undertake any business of consequence, but they would first enquire of the Devill what should be the successe of it, who anfwered them by the Mouths of those lying Prophets made drunk with the smoke of Tobacco : The Prieft being consulted with, did burn the dry Leaves of Tobacco, and he drew the smoke into his mouth by a cane or tunnel, as now a daies our Country Men do too much (the more the pitty) being made fo drunk with the smoke, untill he fell faft asleep, being deprived of all his Senses, and being rapt into a certain extasie; he sell down upon the ground, where he lay, most part of the day or night

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not able to move; when his drunk- The wonennels was over, he told them, he derfull had conferred with the Devil, and as craft of the he thought, fo he delivered his mind, mongfithe Whether they should wage warre, or Indians. not, or undertake a journey, and fo be gave answers for all things they asked him of ; yet fo doubtfull, that let the event be what it would, he could eafily perswade the ignorant multitude, that he fore-told it; and thus he miferably deluded thefe barbarous people.

Also the Indian Physicians made The cudrunk with this smoke, and having stome of loft their fenfes, would relate a thou- the Indian fand things concerning the counsel of Physicians the gods, and then they three or four

times rubbed the fick Patients body with their hands. In the mean time they held a bone in their mouth, which the simple women afterwards kept as a relique. Being demanded concerning a difeafe, they answered all things to be well; if it fell out otherwife, they had their excuse ready, the difea e was mortal : and it was a capital crime for them to neglect their ordinary customes.

the

the enemy of mankind was went to decrive the Gentiles.

Febannes
Mesellan.
It prepares
a Catarre
in a cold
matter.

In some places the same men were both their Physicians, and their Priests.

But fince the Effects of Tobacco are found to be so excellent, I shall discourse of them more particu-

larly.

In Diffillations, where a cold matter is the cause, make a Fumigation of the dry leaves of Tobacco. The Syrup of it is excellent, for this will wonderfully kay Defluxions of Rheum. The leaves chewed or bruifed in the palate, do the same. These melt the flegme that is in the head, and dry up the cels where the Rheum lieth, by drawing forth the moisture from the foremost ventricles of the brain, by that part which is commonly called the Tunnel. I know not whether there can be a more happy or more certain Remedy found out for this purpole.

Affo to firengthen the memory the fmoke is excellent taken by the No-Arils, for it is properly belonging to the brain, and it is easily conveyed into

For the memory.

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that from all filth (for the brain is the Metropolis of flegme, as Hippocrates teacheth us in his book concerning the Kernels) it must be taken three hours before meat, for fo it doth more conveniently discuss and cleanse the peccant humours. not write this for their fake, who by their daily miscarriage abuse themselves, and spend good time in Tobacco-shops, and make of their brain (which is the most noble feat of the mind, and the store-house of all knowledge and learning) a chimney, and a common fhore, and difgrace a Medicament that is otherwise very good, and make themselves nothing but blowers of coles and ashes. famous Practitioner at Leyden D. Henricus Florentius, fometimes related unto me, that Dr. Pauvius, a moft experienced and excellent Anatomift of his time, had once a subject for his Anatomical practice, whose finelling was quite loft, and there was not any thing left to be feen of the Procelling

Manmillares: And this he conjectured, by good Arguments, to have

Note.

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happened by reason of the parties immoderate drinking of Tobacco. About thirty years fince (or before) that smoaking Tobacco through the nofe hath been suspected and spoken against, as if the continual and overusing of it did fill the brain with all vapours, and last of all did corrupt it. Let us hear what the most learned Dr. Julius Raphelengius, who deferved exceeding much amongst Scholars, writ sometimes unto me. His words were thefe, I remember (faith he) that Dr. Pauvius, in hie first Anatomical practices, diffected a frong young man, and otherwise very sound, whose brain was totally filled with black vapours like to foot. D. Pauvius inquiring into the cause of that accident, and referring it to Mania, or some other disease of the head; they answered that were acquainted with that young man, that the man was never sick, nor had he the falling sicknesse, but was so given to drink Tobacco continually, that the pipe was seldom out of his month, and be was alwayes drawing in that fuliginous vapour; whereupon D. Paul vius

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vius did corjecture upon good grounds, that heap of foot and smoke was contracted in the cavities of his brain by that means .

I could alledge many more examples of this kind, but for brevity fake I passe them over. Let these and the like dangerous effects teach thee, that lovest this smoke to avoid them, if thou lovest the truth, and take heed least that sweet Memory, which is the mother of the Muses, and Gods delight, do turn her eyes from thee, and thou be deprived of that divine closet and lights, which are an incom. parable treasure, as being unworthy to possess them.

But young men especially must take Thesmoke great care how they suck in this of Tobacsmoke, for the custome and too hurtful for much use of it, brings their brains young out of order, and makes them to be mens boover-hot, fo that they lofe their dies. good temper, and are beyond the bounds of their health, and that faered anchor is loft irrecoverably. For the nourishment of young men requires a gentle moifture, to frengthen them, and to make their bodies grow

for the Cholerick

Especially to their just perfection. Especially for those that are cholerick, whole brains cannot endure excels of hear, for the native heat would be oppreffed by the accidental heat. See Galen his Comment, in lib. de vill. Salub.

It will caule vomit.

Alfo this fmoke doth vehemently move the flomack to naufeat, and to vomit, (as daily experience teacheth no) namely by cleaving to the inward parts, and so offending the peculiar juices contain'd in the stomack, and the Melentary, it deftroves their ordinary operations. For in thrufting forth the matter from the flomack it cannot be, but also something must be calt out, wherein the force of nature refides; and alfo, becau'e when nature is doing her office, the fends the nourishment into the babit of the body, as to the circumference, but all disturbing and purgative things draw the juyces and spirits to the center. Wherefore nature is wonderfully tired with these contrary motions, for the can endure nothing less than two centrary motions at the same time. Wherefore it is a most bitter

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bitter enemy to the stomacks of very Therefore many men, especially if they use to it is an ci take it prefently after Supper or Din- nemy to ner. And in this refpect it is milchie- mack, yous to the bodies of all found men, according to Hippocrates his Rule. 2. Aphorif. 37. It is troublefom to purge those that are in good bealth. For frequent use of purging Medicaments will foon make a man old ; for the forces are broken by the resolving of the folid parts, by an Hypercatharfis of all nutrimental juyce. Alfo Cel/m in the beginning of his Book affirms, That Aliments only are fit for found bodies, and Physick for these that are fick But grant, that it purge not It alters (which yet is most certain, as I shall the body. fhew elfwhere) yet it alters the body, which can never be done in young and firong bodies without great hurt. Moreover it drinks up the moisture, and augments the heat of a perfect conflitution, as the fire and Sunne do fenfibly best fuch things as are exposed to them.

Let us hearken to the example of Plato, 2. de legibus . In the begin .

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ning (saith he) I confirm it by a Liw, that ebildren untill they come to be eighteen yeer old, shall be wholly ignorant of the use of wine, and we must admonish them, that we ought not to adde fire to fire, into the body and the soul, untill they become men, and begin to undergoe labour; for we must take beed that young men be not surious in their habit of body, then let them learne to be moderate in drinking wine, untill they come to be thirty yeares old.

If then Placeforbad young men to drink wine, because by its heat it fils their brains with vapours, and with many hot fumes, and over-heats their bodies, and not only hurts the body, but doth exceedingly hurt the foul by the ufe of it, as Galen faith, 1. S'anitat.tuend. Wine muft not be given to young men, because it makes them prone to anger and to luft, and makes the rational part of the foul dull and out of temper; and doth not the smoke of Tobacco do this farre more? Wine is hot and moift, Tobacco is hotter than wine, and that excels

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excess is the cause of its frong smell, and corroding tafte : moreover in place of moisture of the Wine, the heat of it is joyned with drinels. He that hath only tafted of natural Philosophy, may easily perceive from hence, that it is a thing full of danger for Colerick Constitutions, and disposeth them to burning Feavers, Hecticks, and Frensies, and brings them into unfeasonable Melancholy: For the unnatural heat, conquering the natural heat of the body. deftroves and waftes that, as I faid, and by the same means ingenders a Melancholy diftemper, by the continual use of it. Hence it is, that the dry and hot choler is afterwards inflamed; but this is done by degrees, and infenfibly in the younger age, and also by reason of the frequent drinking in of Beer, (for our Tobacconifts use to do so) and this hinders that the alteration cannot be fo fuddainly made. Galen de fanitat. twend. faith, That the best manners, proceed from the best temperament. And he writ a whole Book for that end, that he might prove the affections of the mind.

mind, to follow the temperament of the body. Which thing, though it be principally to be understood of that Original temperament which we received from our Parents: Yet as that is changed either naturally by age, or accidentally by sucking to much smoak of Tobacco, or some other external meanes, so a great change of the affections and inclinations of the mind useth to go along with it; and as heat and acrimony grow and dwell in the blood, so rashness and sury do in the soul.

The Blood being now made thick and congealed, the mind grows flupid and fad; and in some men this is too apparent, though others do prudently dissemble and cover it. Wherefore I cannot see how that overmuch drawing of smoak of Tobacco to the brain and nostrils can be done, but it must overthrow the perfect state of mens bodies and minds, the proportions of the cold elements being subdued, and promoted unto heat; being spoile d of their former condition, and that not only in these smoaky Companions, but

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in their Pofterity alfo; fince the nature and conflicutions of the Parents are naturally passed over unto the Children : and withall, the affections of the mind that depend upon For faith the learned Fernelim, With what Disease soever the L. 2. de Father is troubled when he begets the fignis. Child, the same Difease passeth to the Child. And Galen writes thus : Lib de can. The Father gives the form, nature fis Morbor. and effence to the Ghild. When therefore the Humours of the body have contracted this tharp heat and driness, by the too much smoaking of Tobacco, the Father gets a Son like himfelf; but fuch an one as wants natural moysture, which should prolong his life, and should dispose himto ingenuous, pleafant and feciable manners. Let Avicenna Speak, Fen. 1. p.c. It is in the power of Art to hinder that corruption shall not breed in su, and that natural moisture shall continue longer, that it be wot foon diffolved by drying and burning causes, and that every body may be made to hold out so long as it possibly may do by its natural temperament. And he

he shews afterwards in few words, by what helps Art can perform this; namely, by a three fold Caution laid down by Art. One in a due Administration of Meats and Drinks. in the quantity, quality, folfance : manner, order, and measure and time of them: Not neglecting in the mean while, the occasion of the place, which is another Caution to take beed of Corruption. The third is in forbidding and forbearing thole things, which fince they can naturally hurt life, they do in a short time diffolve the radical moisture, and so they cut off life in a moment. Such are watchings, cares, griefs; also the use of things that vehemently heat and dry, whence of necessity at length (for want of convenient food) the natural heat is extinguished, and the native moiflure : And fo we die by wasting and confuming away. Galen de Tabe, faith, that Tabes is a Consumption of a living body, by reason of driness.

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By these things mentioned, it is easie to collect, that the smook of

Tobacco

What is Tabes.

Tobacco shortneth mens daies. For being that our native heat is like to a flame, which continually feeds upon natural moisture, as a Lamp lighted, drinks up the Oyl by its heat : it follows necessarily, that for want of food, life must needs fly away quickly, when the pro-per subject of life is diffipated and confumed: for with that moisture, the imbred heat fails alfo, and death forceeds.

You understand therefore (that are Tobicconifts) that the footy fumes of Tobacco, wherein you are wallowing (as it were) in the deepest mire, are of great force to shorten your daies. Galen speaking of opeing Medicaments afferts, that by the frequent use of them, the folid parts of the body are , de Medried, and that the blood grows die fine, grofs and clotted, which being bur-facul. ned in the Reines, breed the flone. The fame thing may be truly maintained concerning Tobacco, which many use too frequently, and more then any do use those kind of opening Medicaments; for this is more

hot and dry then they are, and therefore is more forcible to hurt found and well tempered bodies. Take warning therefore you that love Tobacco, that you do not exceed in using too much of it; and enflave your felves to this fuliginous smoak, by hunting after it, and making a god of it. The Forgetting goods of the body, are beauty, ftrength, and found health. The moft grave Authour Plutarch, commending the last as the best of all. affirmed mor gravely and learnedly. That health is the most divine, and the most excellent property of the body, and a most precious thing. There is nothing in this world bet-

ter; nothling more to be defired,

Commendation of

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and nothing can be found to be more pleasant. Without this (as Hippocrates faith) there is no pleasure or fruit of any other things. This is it, which in this life fils all perfection : Without this no man could ever be faid to be happy: This farre exceeds the greatest Ho-

nours, Treasures, and Riches. lib. 1, cp. 2. Whence that of Horace is a

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Not House nor Land, nor beaps of Gold or Brajs,

Can force the fick Lords Ague

Nor move cares from his mind; he must have bealth,

Who thinks to use well what be gets in Wealth.

Cicero, who was both the Father The way and Prince of the Latin Tongue, to preferve feems to me, in L. 2. officiorum, health. to fet down before all others most excellently, the generall reason of preferving health. Health (faith he) is preserved by knowing a mans own body, and observing those things that do a man good or harm; and by moderate diet of all forts; and in cloathing to defend the body; and in refraining pleasures, &c. What could be faid more divinely, or more fully, or more eloquently by any man, I cannot perceive; for the universal method of maintaining health, is contained in it very elegantly. It is a most worthy Sentence,

Cic.lib z.

and fit to be ingraved in the mind of these who are studious of their health. Let us use such things whereby nature is helped and refreshed: Let us beware of fuch things that we find do us hurt, and that by Natures direction. Which (as Cato faid) is the most excellent Leader for our life, declaring by many hens, What things she defires, What she abborres : And to refift Nature, is nothing elfe, then to do like the Grants, and to fight against God. This continence should be observed in all our food, cloathing, and abstaining from Continence makes the pleafures. body cheerfull, healthfull, and firm ; And abstaining from pleasures doth the fame. For as Plato writes, Plea-Sure is the bait of mischief. Since then, they that fume Tobacco, take fo much delight and pleasure in it (if that can be called a pleasure) it is a wonder how much they rejoyce, not thinking in the mean time that Nature is debilitated, and they are unmindfull of that Verse of Ovid.

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Strange Poylons under Honeys lib. 1.E-[weernefs lie. lig.

Socrates was wont to perswade plut lib. de men to avoid those Meats and Drinks wend val. that would allure men to an appetite, beyond what would ferve to quench their thirft, and flay their hunger; because these things, by their delight, did more entangle us, and bring great mischiefs upon us. For it is a true faying,

Pleasure that's bought with Horas. 1. pain, doth us no good.

And isit not a filthy thing, and utterly to be detered, that man who is a most prudent creature, should be enfoared by the wanton enticements of this fmoak of Tobacco, fo that neglecting the precepts of the Art of health covering this fordid fume, he should, wholly devote his health to it? To be deprived of his ftomach? To confume by wafting his radical moisture? To be tormented with Feavers, and to be vexed with

many other Infirmities? Are not thefe brave rewards for taking his pleasure ? I think with Galen, that it were better (if any man have brains in his head) to die a thousand times, then to lead fuch a life. And if it be fo (as I profess it is fo) to what end is it for a man to devote himself to these damnable smoaks, and to force nature to defiroy and murther ber felf? Are thefe things the properties of men, are they not rather of Beafts? Pliny writes the

lib. 27.6.3. the truth: All creatures that live, know what is good for them, only man doth not. And Senecu is in the right :

Spill.39. This is one of che causes of our misfortunes, that we live by Examples, and are not guided by Reason, but follow Custom; and if but few do athing, we will not imitate them. When mamany begin to do a thing (as if that were more boneft) we willingly follow them, and the Error of the multitude not, bu is held to be right by su. And elfe- where

where ; They cannot abffair from the par Pleasures, that are grown to be a much Custom; and in this they are the more bound miserable, that they proceed so farre, or who

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u to make things superfluous to be neceffary. Wherefore they ferve their pleasures, and do not enjoy them; and they love their miferies, which is the greatest mifery of all. Then is nnbappiness come to the beight, when filthiness, not only delights, but plea-(eth su; and there remains no place for remedy, when vices are grown to be our manners. But all our Admonitions are in vain.

This Plague infects, and more Focual. thereto incline.

One menfeld Hog, will taint an heard of Swine.

So that all die infected, thus we fee.

One rotten Grape, lets not the next go free.

To draw to a Conclusion ; I deny not, but that for cold and moift bodies where the brain is large, and where the parts are feeble, by reason of roo much moisture, and where there is amore boundance of flegm joyned with it . erre, or where that juyce offends the brain with

with a shaking cold: (The signs whereof are palenels, and no veins to be feen; where the hair flands Araight, firm, and are yellow; where they cannot endure cold, and where the temper of the whole body is cold and stiffe; where drowfinels and Acepiness are, and the Mouth, Nostrils, and Eyes, are full of moisture.) this fumigation may be good to empty that fink of naughty and corrupt matter, and to thut it out. Yet I cannot think it fafe at all, to take this fmoak even in this respect, but with Cautions and Confideration : and the chiefe is, that it be taken for necessity, and not for luft and intemperance: Let there be sparing and modertaion used. But first purge the head with fneezing, with the powder of Tobacco (as I shall say in another place.)

I think the most convenient way is, to make the Pipes you suck it through, very long, such as the Indians use, whereby they draw the smoak from a great distance: And I remember, that many were wont to use the like, for the smoak will

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come cooler, and be taken with more pleasure; nor will it reek forth with fo foul and fharp fume. Alfo, fince that the brain is enter-woven with very narrow small Veins, it will not willingly entertain those gross vapours that penetrate with difficulty, but only fuch that are thin and hot.

The Perfians, and the Turks also, cut Lingum Aloes small, and mingle it with Tobacco, for Difeales of the Head, and so through a long Pipe, made of Lattone (which they put into cold water, that the smoak may come the cooler to the brain) they draw forth the smoak. Some adde some drops of Oyl of Annifeed, I have feen others mingle Cloves with it, and some again adde other things that evacuate the cold and moift humours of the Head and of the Breaft.

What Infruments the barbarous What people use, or rather Pipes or Trunks Pipes the (whereof I shall fee down divers barbarous Figures at the end of this Discourse Feople concerning Tobacco) of which ule Monardus Speaks Lib. 2. fampl. Medic. And I cannot use any mans words

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words better then his own, which the moft learned Clusius hath interpreted to us, and by which the courteous Reader may best understand it. " There are brought (faith be) from " new Spain, fome Trunks made of " the inward part of Canes or Reeds, " and fmeered with fome kind of "gum, which I think is mingled " with the juyce of Tobacco, for it "trieth the head: If I am not " mistaken, they annoint the Cane "with that; and as it is glutinous, it "Ricks faft, and is of a black colour, " But when it grows hard, it will "hold no longer. The Trunk is " lighted at that that end where it is " fineered with the Gum, or Pitch; "and the other end is put into the " mouth, and the fanoak is received, " and this draws all flegme and cor-"repr humours out of the Breaft. "This they are wont to use when "they are oppressed with short " breath, and are ready to be choaked. Clusius addes to the same Chapter, "That in the year 1585 Wingande-" cow (which is new called Vir-" giny) being discovered to the Eng-" lifh

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"lifh (to their Captain Richard " Grenfield, and is a Province of the " new world, and is thirty fix degrees "from the Equator toward the "North Pole) they found that the "Inhabitans did frequenly use some " Pipes made of Clay, to draw forth " the fume of Tobacco leaves fet on " fire; which grew amongst them "in great quantity, or rather to "drink it down, to preserve their " health. The English returning " from thence, brought the like Pipes " with them, to drink the smoak of "Tobacco; and fince that time, the "use of drinking Tobacco hath so "much prevailed all England over, "especially amongst the Courtiers, " that they have caused many such "like Pipes to be made to drink To-" bacco with. Thefe are Clufins words concerning the English. Let me adde that great part of the Low-Countries, Germany, France, Italy, Turkie, Arabia, Perfia, and many of the Inhabitants of the whole earth, (if not the greatest part) are taken with the fcent of this fmoak, that they do preferre this flinking and filthy fmell.

fmell, before the most pleasant perfumes that are in the world. But chiefly this fumigation is of great efteem with with us in the Low Countries, and the Merchandize of Tobacco prepared, is not the least among other Trafique, and the Merchants make a huge gain by it, if they have but any good fortune. It is a very speedy way, and a val profit to the Merchants of Holland and Zealand, who bring Tobacco prepared and dried from the Indies, and fend it forth to other Countries, be they never fo wide off from them, for they gain by it extraordinarily. How many thousands of men may be found in that mod flourishing and mighty City for trafique Amsterdam (to fay nothing of Rotterdam, and other Cities in this Province) who at first being but of a small meanes, for the most part, by felling Tobacco, have fustained themselves in their poverty, and also abundantly provided for their Families for food and rayment, and other necessaries, and have gained fomething more for themselves; and there are some that have heaped up great

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great wealth by it. Yet I do not defend them, who under a specious and faire pretence to gain food and fome small matter, by keeping Tobacco fhops, (as also others that keep Wine Taverns, tap-houses and the like) do in the mean time increase their exates by keeping Whores and Bawds which they live by. But that the Curious Reader may fee how mightily this Merchandise of Tobacco encreaseth amongst the Dutch. I say undoubtedly that this may be forefeen and foretold by it , and it must be confessed, maugre all opposition, that the most illustrious and most mighty States of Holland, by a fmall and very tolerable tribute to be paid. imposed by them upon Tobocco, (which I understand was lately done by them) may collect above thirty thousand franks yearly at their pleafure, by the only custome upon Tobacco for the publick treasure, from the Merchants that are carefull to bring it from the Indies unto us.

But to return again from whence we digressed. I said that this sume can draw forth watry and cold humouts

An Objection,

The negative part.

mours from the head : yet Hippocrates his Doctrine feems to be against this, S. Apharifm. 28. Sweet Aroma. tical Imells will provoke the terms . and the same would be often good for other matters, did they not canfe the head to ake. Where he teacheth, Galen subscribing in his commentary, that the whole body being duly fumed, will fend forth by the Matrix in all cold and moyft dispositions, were it not that we are affraid of that heavinels of the head, which proceeds from these fumes. Since then for a Flegmatique matter lying in the head, those things are not requisite, which load and fill the head, but rather those things that send ease and lighten it, fumigations that are made of things, that fill the head, as Galen himfelf teacheth, cannot be good to be used in such a disposition of the brain, nor yet in any other.

The affir. mative part.

But there are many most grave Authours for the other part, who exercise their practise with great praife, and teach and highly commend fumigations in fuch, or the like accidents, and to thefe men not only daily

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experience, but also most strong reafon subscribes. For to cut and confume a cold and moyft humours col- Reason. lected in the brain, no fitter Remedies than those can be found, which have power to frengthen, attenuate, and dry the brain, and it is certain that the fume of Tobacco hath fuch a faculty. For it heats, cuts, attenuates, opens and resolves : Therefore this fmoke drawn in by the Mouth and Nose to dry and heat the cold and mouft excrements of the brain, may be proper and ufefull.

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To answer the former argument Notes that is against it, observe that it is very necessary to consider, for the ule of this remedy, what the temper of the brain is as I faid, and what the humour is that abounds in it, for if it be bot it will be much filled and burdned with the smoke of Tobacco, and the canfe of this event lyeth in the heat of the part, (for heat naturally attracts heat) and also in the largness of the paffages of a hot head, whereby it eafly admits the Vapours that ascend : but if the braine be over cold and moyft, and then heap

up fuch excrements, it will not be filled with this fume, but will rather be refreshed and dried, unless perhaps by reason of so great natura! weakness, or weakness contracted by a disease, it can admit no vapours without pain and heavinefs.

Answer to ment.

These things premised, I answer the oppo- tothe contrary Argument, that Hip. fire argu- pecrates in the quoted Aphorism, muft be understood concerning those, who have a brain that is very hot and moift and weake withall, and that eafily is offended with pain and heavinefs. For a cold and moift brain filled with cold and moift Excrements, a hot and drying fume (fuch as is the smoke of Tobacco,) is most convenient, especially drawn in by a Pipe the way I mentioned before. Yet I think they ought to abftain from it, whose heads are not only weak, but are also of a delicate nature, and are eafily diffurb ep and pain'd not only with fumes but with the most temperate fmels.

Another question whether the Imoke

Here follows another question, namely whether the fume of Tobacco Swallowed into the Stomach (which custome I find to be in continuall use

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with many men, but chiefly amongst if Tobacour Sea men) can draw and purge lowed into superfluous humours out of the head the ftomach can

Reafons are very forcible for the bring affirmative part. The first is taken forth fuout of the 7. Aphorisme, 30. of Hippocrates who fay thus ; W beforever they be that in a diarrhan void frothy excre ments by fool, those excrements flow I he athrfrom the bead, and from thence it is inferred that humours may be drawn from the head to the stomach by the ficulties of purging medicaments, be-

ing derived by the tunnel. The fecond is taken from Altuarius , Mesues, and other approved Authours', who commend Agarick to purge flegmatique humours contain'd in the head

and the breft, which they would never have done, if the head and breft could not be vacuated by the belly.

The Argument for the Negative For the part is, because according to Arife. negative 1. Sett. Probl. Queft. 42. When Part. medicaments come to the belly, and are resolved, they are presently carried to the Veins by the same way that the meat is, and when they can-

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How purging is made.

I.

not be concocted, but remain conquerours, they slip back again, and carry with them those things that stay by them, and that is called purging. And from the stomach to the brain or brest, there are no passages found whereby a purging medicament can passe to allure the humours to it: Therefore the humour that is contain d in the brain or thorax, cannot be drawn forth by the sume of Tobacco, as by a purgative medicament, which opinion also of Aristotle the most Learned Fernelius, 3. Meth. c.7. seems to desend.

Note therefore for the resolving of this difficulty, that the more corpulent substance of this sume doth not pass from the stomach to purge the brain, but stayeth in it, or sticks in the Intestins, and from thence it draws forth those humours that are agreeing to it, which may be proved many waies. First, because medicaments applyed outwardly, as to the Navel, & therefore called Navel-medicaments, to the palme of the hand, or to the soles of the feet, and sometimes applyed to the Nostrils will purge the body

3.

body, and yet they cannot proceed fo far as to purge the humonrs. Secondly. Because we often observe that medicaments and pils are voided almost whole, after purgation, which could not be if they passed all the body over, to draw unto them such humours as are familiar to them. Third. ly. Serapions argument proves the same, for saith he, if a medicament should pass to a humour, that is farre off from it, it would joyn lovingly with it, and would never draw forth that it delights in the fociety of; as the Loadstone joyaed to the Iron. doth not draw the iron to fome other place, but detains and holds it there. Wherefore we must confesse that some thin fumie substance doth rife from the flomach, by the veins and other fecret passages, not only to the brain, but also is diffused, we cannot fay how, to all parts of the body.

Hence it is clear, that Ariftotle faid Ariftotles not right, that purgatives pass all the reason body over, and so draw the peccane confured. humour, as taken captive into the ftomach.

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Those things being thus observed Rion deci- we answer to the difficulty, that purgatives do not pass through the body to attract humours that agree with them, but they flay in the flomach, and by their force and Vertue they draw them unto them from all parts of the body by waies, that though they are unknown to us, yet they are not unknown to nature.

Another queftion whether the Brain can be dried, other parts dyremain ing in medioerity. The negative part.

Here riseth another question Namely, whether to much Drinking of Tobacco in a Pipe, can dry the brain, and yet leave the other parts of the body in a good temper?

For the Negative part, the Arguof the bo- ment is this; Because the great or fmall quantity of the humour of the whole body, follows the temperament contracted from the firft gene. ration. Since therefore the temperament belongs to the whole living Creature, and not to one part alone, the humour cannot be dried up in the brain nor in any other part of the bo. dy, but it must also be dried up in the whole body.

Now that the temperament must be ascribed to the whole body, and

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not to one part only, is proved from the 1. and 3. Books of Hippocrates Epidem. From the grayness of the eyes, sharpness of the voyce, and black haire, you may conclude that the temperament of the whole body is either hot or cold; as if one part could not be hot or cold, but the whole body must be so also.

But Galen is for the contrary part, The con
2. de temper. c. ult. where he trary part.

proves by many arguments, that it is not necessary that all the parts of the body should follow the temper of the whole. For though in a temperate body and very well conflituted an equal temper may be found over all the body, but in others that are different from this exquisite temper and just dispensation, it cannot be Universally true; for a man may have a large brest and full of haire, and therefore like a Lion have a most hot heart, and be exceeding bold;

yet it follows not that all his body over must be so hot. So we find daily (to pass by other examples) that many men have hot livers, and yet cold

brains, and the contrary in others,

G that

that it is no wonder that if one man who hath the rest of his veins of his body swelling forth, have the veins of his head and brain after a fort dried up For Galen addes that this may be done, and that the excess of Intemperance in one part, may be the cause of the contrary excess in the rest, and make them weak, or the strength of one part may be answered by the strength or weakeness of another.

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Answer to the argument contrary.

To answer the contrary argument: when Hippocrates collects from the colour of the eye or sharpness of the voice, what is the temperament of the whole body, this may be taken, as if he did fearch for the same things in the equall temperament of the whole body whereof he finds some tokens in the parts ; or he may be understood thus, when other figns in the whole body concurre to fignifie the same. For example, if there be figns of heat in the whole body, and a great voyce and large breft be joyned with them , it is evident by these signs that the whole body is hot : which must also be understoode concerning the complexion of the brain, and other parts, that

hat must be compared with the temperament of the reft. I fay that fuch who for many years and by much taking of it are used to this smoke in their mouth and nostrills, to those it doth lefs harm, For cuftome is nature Cuftome, acquired, as Galen faith, 2. de motu what? mufc. and 2 de tempament, or it is an acquired habit, by many actions concerning one thing used for a long time; and this habit by custome is made agreeable to nature. Whence divine Hippocrates, 2. Apborism. 50. speaks thus. Those things that we are accustomed to though they be worfe: yet they do us less harm, than those that we are not used to, and therefore we mast we what we are wonted to. This is a most true axiome and cannot be contradicted; For all things that are accustomed, as they are fo, are less hurtfull than things we are not wonted to : for by custome things that are worse are made familiar to nature. and therefore are not dangerous. For what nature is acquainted with, is wont to be harmless. Custome is of fuch consequence, that from that in preserving of health or curing of difeafes

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difeases we may have great indication. and not much less than we can from nature, as both Hippocrates and Gales intimate in many places. For fince nature alwaies delights in what it is uled to, (as Galen faith, 8. Method.) it is certain that every one ought to keep his custome: for from custome as well as from nature and age, great conclusions may be made. Since then Hippserates and Galen affirme that we must hold to what we are wonted to ; what a great danger would it be to leave off this custome which is confirmed by fo many years, as this is to fmoke Tobacco, in a Pipe at the Mouth and Noftrils, and to change this to a contrary way, especially if it be done fuddenly or immediately, as I am perswaded all men can easily perceive? Whence Cellius alfo speaks, l. 1.c. 3. He is in danger who both once, and he that twice eats in a day contrary to bis usuall custome? Again, Sudden ease from violent labour, and sudden labour from great ease cannot be safe. When therefore any man thinks to leave off this drinking of Tobacco for a time, he must not

not rafhly nor fuddenly change this custome, for it is almost as strong as nature. Therefore they who use to smoke it, easily bear it, and they that are not used to it cannot so we ll away with it. Cuftome makes not only healthfull things to be afefull for us, but also it makes those things healthfull, which were they not accustomed to us, would be the most dangerous. For it is of fuch force that it overcomes the malignity of any thing taken, and which is more to be wondred at, the very violence and virulency of pay. fons is conquered by it, and it spoils them of their malignity; fo I read of a maid that was fed with Wolfs-bane, and in time by degrees thee used it for her nourishment, Galen, 3. fimpl. c. 18. fpeaks Avices. 6. of an old woman of Athens , who be 4, tr.l.c. 1. ginning from a fmall quantity of Hemlock, proceeding by degrees learned to feed on it in great quantity and found no harm by it. We read also of a certain Maiden at Col- calim). len, who when the was but three 11,0,13. years old would catch the Spiders

creeping

them, and being delighted with that kind of diet grew exceedingly; Plini.1-29, Withridates King of Pontus tak-

Plini. 1- 2 C-2.

Martiall.

1.5.17.

Mithridates King of Pontus taking poyson daily, made it so familiar to him, that when he would have poysoned himselfe, that he might not fall into Pompeys hands, he drank deadly poyson without any harme.

Oft Mithridates eating Poylon get, That the most cruell Poylons hurt him not.

Sleydan, lib. 9. Writes, that Pope Clement the 7. being old, died of a great pain of his stomach, having changed his diet by the advice of Curtim his Phyfician. What fhould I fay much of a thing confirmed of daily examples. We fee that they who use to purg often have need of ftronger phyfick than what they used to take before: for those that are usual wil hardly move them. So if one often take Clyflors, the belly will hardly be moved, nor yet yield to other remedies, as it befell the Duke of Albanie, who could not go to flool without a Clyffer, for nature

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nature had forgot her felf, and de- Heurs, in pended wholly upon Physick. He that will read more concerning custome, let him read what Theophraftus 1 9. c. 18. of Plants, hath writ-ten of Thracia and Endemin Chin.

mesb. ad pr ex. 1.3. C. 17.

F1N 15.

Dr Everard.

Ve fin fide Phy for fore few wor fine



D' EVERARD DISCOURSE

Of the Wonderfull EFFECTS & OPERATION

TOBACCO.



Am chiefly induced to write the Hiftory of Tobacco, a most excellent Plant, and for Physicall use, of admirable

Vertue, because many have written singularly well of Plants; yet besides Nicolam Monardus a Spanish Physician (who writ a peculiar History of Plants and Spices brought forth of the new sound World) very sew have sufficiently set forth the worth of this noble Plant. But since, I doubt not but that many H

earnefly defire to know the Effects of it that fuch may no longer be kept from their Enjoyments, as they know it by Name, they shall farther know the Vertues thereof. lingly undertake this work, that I may as briefly and faithfully as I can, publish to the world, what I have partly got by reading, and by the relation of other men, and what I have had experience of my felf, adding what others have fcattered in their writings here and there, and what I have fince by long fludy herein, approved to be effectuall.

The kind.

Tobaccoin the form and faculties of it is much like to Comfrey, that I may not without reason think it to be of that kind, rather then a vellow Henbane, as fome have suppoled.

The differences.

It is observed to be of three forts, the Male, the Female, and a third fort, more imperfect then them both.

Descripti. Ma c.

The Male harh large leaves, that on of the are thick, long, fat, of a watry green co our, fharp at the top, a little hary, and clammy, but with no cuts

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in them; fo flicking to the falk that they feem in a manner to embrace it : They fmell frong, tafte sharp and hor, and are larger at the top, then at the bottom; It produceth a most upright stalk, which fometimes rifeth to four or five foot high, and sometimes to fome Yards, as the ground is hotter, that it is planted in, and is fatter and well dreffed.

The branches that from the knots The at a distance spring forth, part the branches. stalk a foot, or half a foor distance affunder. In the top of the branches a flower comes forth, that is white and red which they call a Carnation colour, like a small bell, and it comes out of a Pod as out of a Cup, which at length swelling round like to an Apple, when the flower witheres, is filled with very small teeds , very like to the yellow Henbane, which being ripe or black, but first they are green. At the root there is great The plenty of fyowrs, which doth after a Root. fort renew it felf, whereas the roots are but small threds, some greater and fhorter then others, as the Plant is in height. They yeeld as the leaves do, H 2

a fat

a fat and rofine juyce, that is yellow, and fmells like Rofin, not unpleafant, and the tafte is sharp and biting. The most flourishing Plants have thicker and wooddy roots, which exceedingly abound with shoots of a yellow colour, bitter in tafte, which are supposed to be equall to Rben. barbe in Vertue, though this be not fufficiently found out.

The Female hath a smaller and lower stalk, the leaves are shorter. fmaller and not fo gummy. flower is not fo open and gaping, nor foruddy a colour : The branches are not fo tall nor firetcht forth as the Male Tobacco branches are; wherefore they are out exceedingly that think this to be a kind of Satyrium.

Descripti-Fem ale.

For this which we call Female Toon of the breco, is not like to Satyrium either in form, fashion, root, colour or any other way. For it hath many small roots, a hairy falk, many branches, many leaves, and those long and large; and it is hot and dry, like to the Male Tobacco: but Satyrium hath fewer and thicker roots, the flalk is not knotty, it hath no branches

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branches, it hath fewer leaves, the flower appears on the top of the stalk, without any Pod or feeds, and is hot and moift to the third degree, and is most fit to provoke luft.

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The third fort of Tobacco is in all fort of things smaller, the leaf is rounder, Tobacco fomewhat blackish, fat, somewhat called hairy, though it be full of juyce: common-The flower is less, and round on the ly black outfide, and of a pale colour, and or yellow, it is not above twenty years fince it was known in Europe. Dodonens called it yellow Henbane, but Mathiolus before him called it black Henbane.

It is fowed about the Calends, Ides, The time, or Nones of Aprill, or near that time : fometimes fooner or later, as the weather is hot; though the Indians in Peru, and the Inhabitants of new Spain, sow it in Autumn. In hot Countries it bears leaves, flowers, and buds at one and the felf same time. for nine or ten Moneths together. But in the low Countries it flowers from August untill Winter, and forthwith brings forth feed; after that, when the front first comes, it fadeth H 3

and quite decayes, and it can hardly be kept all the Winter, unless it be in Pots or Baskets, and that in Stoves, or Store houses, or other places that are kept bot.

The Lote Tree.

This requires a fat and well manured ground, and in their cold Countries, the ground must be exceedingly well dung'd, and the dung (especially Horfe-dung) must be fo mingled with it, and incorporated, that it may feem to degenerate altogether into the Earth. Moreover it requires a shadowed and moist ground, and it must be large, and affording room exough: For where the place is narrow, it will not profper nor yeeld any branches. It delights in a South Sun, and where there is a wall or fluce behind it, that it may be thereby defended from the injuries of the North winds that follow, and that the Sun beams lighting upon the wall, may reflect upon it. It must be free from all Tempests, because it is exceeding tender, and very great; yet when it hath taken deep root, it hath almost escaped the danger of winds. It wounderfully delights

delights in water, and therefore being oft-times watered, especially where the Climate is very hot, it thrives the better. It can endure no cold. and therefore in winter it muft be preferved in hollow places, and where Chimneys or Stoves are provided for this purpofe. Or elfe it must be compassed about with a double Mar, and a Painthouse upon the wall over it, and a coverlid raised up, and it must be covered with a covering of fraw, in a shelter that lieth right against the Sun at noon day thining clear, that the Plant may be refreshed by the heat.

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Before you fowit, you must make The way a hole in the earth with your finger, of fewing and caffing into that hole ten or twelve grains, you shall diligently cover them with the same earth. But do not cast in three or four grains into a hole, for they would be choaked being so small. If the Climate be very hor, you must water them for fifteen daies after you have fowed them; also they may be sowed as Lettice feed, and o her feed of that kind : namely by curioufly mingling

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the earth and heaping of it together-Some there are who mingle the most pure and fine Ashes with the earth; but a very little, for it grows very gently and slowly. When it comes up, it must be accurately defended against all injuries of cold and frost, and in the night chiefly it must be covered when it grows up: and thus it will for ever keep its native vigour and splender uncorrupted.

Tranfplantation.

When the Plant is grown a foot high, because all the grains severally bring forth their stalks, and the fibras of the roots flick together, and are in a manner glewed, you must cut the earth round about with your Knife, and cut the turf round, and then take up the earth, and caft it into a bucket full of water, that the earth may the fooner be feparated, and the small flalks may swim on the Thefe you must take severally whole, and wrapping them up in their own earth, you muft transplant into a ground that is well dunged, fome three or four foot off from the wall, but fomewhat deep, that the falk may grow the ftronger. But if the

the Earth neer the wall or fence be unfruitfull, you must help this barrenness by trans-planting the stalks and by diligent watering of them.

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Nicotiana took its pame from 70. The hannes Nicotius . by whose direction name, it first was made known to the French: as also many Plants and Stalks bear the names of Men both amongst the Greeks and Latins, who by their care and fludy brought them into their own Countries, and Planted them there, where they were unknown before. This Nicotius Counfellour to the French King, being in the Years 1559. and 1560. Embaffadour for his King, in Portingall, and was minded on a day to go to fee the Caftle at Lisborn; A certain Noble Man of the Low Countries shewed unto him this forrain Plant, and gave it him freely; faying, he brought it from Florida. Nicotius accepted it and took great care to have it fet and maintained in his Garden, and to be propagated, untill being grown up, it flewd forth wonderfull miracles of the faculties it had.

Thus it began to be esteemed much

The Em- at Lisborn, and to be called the Embaffadours baffadours Herb. But because it was Plant. fent from Nicotins to Francis the se-

fent from Nicotius to France the second King of France, and to the Queen Mother, and to some of the principall Countries, some called it the Queens Plant of Medicea, and honoured it with that name; for shee gave it to divers to be Planted and to be made increase all France over.

The prior

Some called it also the Plant of the great Prior, because he sometimes passing from France into Portugal, and being entertained by the Embassadour, and Feasted, received of him many of these Plants, by way of gift, and setting them in his Garden, he took great care to make them grow there above all the rest.

Perum. Tobacco.

The Spaniards call it Petum and Tobacco, from the name of the Island wherein it was first found, where it grows in abundance, and thence it got the name.

Picielt, The Indians that inhabit there call the Herb it Picielt; The most illustrious Cares of the ho-dinall of Santa Cruss, being the ly Cross. Popes Nuncio, for the Church of

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Rome into Portingall, brought it first from thence to Rome, and therefore there it was called the Herb of Santa Cruce. Many call it the holy or facred Plant, by reason of the divine and frange Vertues and forces of it. Many again call it Petum the Male, to diftinguish it from the Female, and that is the most proper and native name of it, that the Inhabitants of Florida use to give it, from whom it came to us.

Yet it is fit and reasonable , that Whence it we fhould call it Nicotiana, in re- Nicotiagard of the Honourable memory of na the forefaid Embaffadour Nicetim, who first endowed France with fo

excellent and divine a Plant.

The Second kind of Tobacco, as Female I faid, is to be called the Female To- Perum. bacco, for experience the Miffris of all things teacheth us that it comes next to Male Tobacco, in form, root, and feed; and more then that, because it often grows from the feed. of the Male Tobacco. For if it chance that any of the feed of the Male Tobacco, when it is full of Seed, fall to the ground, Namely,

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the same ground where Tobacco grew before, doubtless the next year Female Tobaeco will grow in that very place. And if you sow the Male Tobacco Seed upon ground, that is not hot enough, but if barren and sandy; In place of the Male, it will bring forth the Female, and in such abundance, that it will be hard to root it out of that place, but it will every year grow in of it self; and this is an Argument that there is a double sex in Tobacco, as it sals out in most Plants, where there is an affinity betwixt them.

The tempera ment of Tobacco, Male and Female.

By its Rosiny smell, not unpleafant, and it's sharp and biting tast, it
feems to be hot above the Second degree, and dry in the First, being very
fit to Clense, Resolve, and Consolidate, and for this it is miraculously
effectuall; for because by its Smoake
it sometimes makes men drunke,
that doth not prove it to be a fort of
Henhane, though it be very like it,
both by the Leaves, Cups, Stalks and
Seed; for it is not credible it will do
it so soon as Henhane, nor is it the
effect of extreame cold; but by the
Aromaticall

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Aromaticall Vapour, that proceeds from it, which fill the cels of the brain.

But the temperament of the Third fort of Tobacco, or rather nightshade yellow or black, is cold and moift

If you consider the effect of To- The use and efbacco, the Leaves are the principall , feds. and next the Seed, though the Seed be farre below them. The Leaves muft be used either greenwhen they are ripe, or elfe dryed, and in Winter brought to powder, for they are of the same force, as the juyce of the Leaves is. The way to dry them is this; run a threed through the faireft Leaves of Tobacco, and those that are moderarely large, and hang them in the shade, in the roof of a Chamber, where neither the Sun, nor Fire, nor Wind may come at them. O. thers flew us another way to keep them any time of the year. Put the dry Leaves of Tobacco into a Viol full of Oyl of Olives; and when you will use them, power off the Oyl, and wiping the Leavs with a thin Linnen Cloth, use them as if they were now gathered. Further .

It takes away wearines-

Further , Amongeft the effects of it this feems chiefly to be wonderfull. The West Indians and the Inhabitants of Peru and Florida use this to take away weariness, and to make them chearfull of their work, and faith Nicolans Monardus, we found that by their example our fervants and the Moors that come firangers into the West - Indians, used to do the fame. for when they are weary and tired with many leapings, and danceings, they draw this Herb in by their Mouthes and Noffrils, and fo the same thing befals them, that doth the Indians: for about three or four houres they feem as if they were dead; after this they are well refreshed, and more able and chearfull to work, then they were before : And they take fuch pleasure in this, that sometimes they will go out of fight, that they may the more freely take it though they be not weary. Yea, they grow fo mad, that fometimes they are therefore punished for it by their Maffers, who also take care that their Tobacco may be burnt, that fo they may. take from them all occasion of this pleasure.

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pleafore. What need more words? The juve I faw, faith Nicholam Monardm, of Tobacboth the Servants and Moores , that co makes were not fuffered to make bemfelves one drunk drunk with Wine, to drink the juyce of Tobacco, and make themselves drunk, wherein they take not fmall pleafure, and they boaft that it takes away wearineffe from them.

It is also as frange and wonderfull A fume that the Inhabitants of Florida at from the fome fet times of the year, will feed dried leaves of on the fmoke only of this Plant, Tobacco. which they fuck into their Mouths by horns made for this use. The Marriners are sufficient witneffes and many more that newly returned from Florida, and more are daily coming back, who having fome things like horns or tunnels tide about their necks made of Palm tree leaves. are much delighted with Reeds or Canes, in the ends whereof these Leaves are faftned in Bundles, when they are grown dry, and withered. Then put lighted Coles to the more narrow part of the Tunnel, and draw with open mouth the fume that is raised, as much as they can, and they

fwest.

fwear and maintaine ir, that hunger and thirst is thereby abated, their Strength is restored, their Spirits are cheared, and their Braine is comforted with a kind of pleasant Drunkennesse, and the superstuous Humours of it are consumed, and an incredible quantity of Flegmatique Humours are drawn into their mouths.

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To ftay hunger and thirft.

Like to thefe, is that which the faid Mona dus left in writing in his own Spanish Language: The Indians (faith he) we Tobacco to flay bunger and thirft, and to drive it away for Some daies, that they may not need to eat or drink. when they have cause to go abroad into Waods and Defarts. and inhofbitable places where meat and drink can hardly be got. For they chew the leaves, and mingle them with powder of great Cockle shels, and there they hold in their mouthes together, untill they come to a Mass, and of that they make Trochisks fo great as Pears, which being dried in the shade, when occasion is, they They put this use after this manner. pellet nader their lips and fore-teeth, and fuck it as they travell; and having

ving fucked it all they fwallow it down inflead of mestand drink and fill their fomach. By this means they will faft for three or four daies, and Jose no ftrength, preferving (as I think) their native heat by the plenty of flegm which being focke into the mouth, is fwallowed down with it; and the flomach for want of better juyce, turns it into nourishment. To these things I shall adde what the most famous Physician to the Emperous, Rombertue Dodonem a great Scholar, and who deferved much for his great skill in Plants, reports in his late Hotory of Plants. I understand by the relation of my Friend (faith he) that drinking the juyee of this Plant about four or five Ounces in weight, their belly is mightily troubled, and A Histothey purge up and down, after that they ry for the fall into a long and deep fleep. There Droply. was a Countrey man that was frong, of a middle age, who had a Droply, and he rook this juyce, and be when be awakened demanded for meat and drink, and after that be was well. He relates also, that he cured many Conntrey-men of Agues with the diffilled

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Williad water of she tower of To bacco, double at ditales:before bie fit come a But with the dowder or the dry stalke und rubbift, be foon cared gultings, not only of men but of borfes and other creatures. Thefe are Dodontus his words,

For Dithe Head.

But to come more particularly to feafes of the Hiffeets of Tobacco. First of all the powder of the lever of Tobacco, finely beaten and fifted, and blown into loth Nohrile in the morning through a Quill is good against Catarres and all defluxions upon the eyes, mand for pains and giddinels of the head, if thele proceed from a cold cause. It purgeth all Humours that trouble the head, marvelleufly, like to an Errhine or nofe Purge, and diverts them, fo we vie it in the morning for fome daies, the body being well purged before.

Catarers.

Headach.

oof H

The paines of the bead, legs, armsf coming of wind or cold, abate, if you lay on one of Tobacco leaves green, roffed on the fire, upon the part; If you want green leaves, use those that are dry, which you must moisten in Wine, and lay under hot em-

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bers, then sprinkling them with water of Naphiha, they will be applied happily to the part. You may do as much with the powder of the leaves dried, mingling such things as age proper for these Diseases. But you must repeat the cure so often untill the pain be gone. In Convulsions and such like Diseases, the leaves of Tobacco will do good, if they be laid to the nape of the Neck.

Carolin Clufins affirms, that Dimnels, the distilled water is good for clouds of the eyes, to discuss them, and to preserve the light, if you often wipe the eyes with it warm.

It cures deafness, especially from Deafness, a cold cause, if you drop in one drop of the oylor juyce warm, into the ears, for some daies together.

Doctor Monardos writes, that he Ozens. faw a man, who for a long time, had Ucers in his Nostrils, from whence there ran much fretting matter, and filth that eat his Nostrils; but at length, when by his advice he fourt up the juyce of Tobacco into his Nostrils, first he hawked up above I 2 twenty

twenty fmall worms, then greater, untill there were none remaining; fo that the inward Ulcers of his Noffrils (you would have thought it a kind of Polypus) were cured, but the parts corroded and eaten up were not to be repaired, and so it had been with all the reft, had he not had the Physicians advice.

Redness of the face. The juyce and oyntment of Tobacco takes away the redness of the face, if you dip a fine rag in it, and apply it to the cheek-bones; Anoynting with the oyl doth the fame, or washing with the water of it.

Tooth-

A little leaf of Tobacco wrapt up into a lump, be it a green or a dry leaf, and this held in the mouth (but the teeth must be first rubbed clean with a linnin cloath wet in the juyce of Tobacco) doth presently ease the pain of the teeth, coming from cold or wind, and takes away all corruption: but this remedy is nothing worth, if the pain proceed from a hot cause: Also it is good to rub aking teeth with the distilled water of Tobacco.

To cure the Thrush and Ulcers of

the

the Gums, a mixture is made with The Ul-Honey of Roses, and the juyce of cers and four Pomgranacs, which maudifier, forces of the Gums

scoures, and breeds flesh

The leaves of Tobacco roufted Swe'ling under the hot embers applyed to the of the pained part, ease the pains of the Throat Throat over-cooled by rheume, and from Rheums ceeding from cold causes. And a gargarism may be made of the decoction of this Herb alone, or mingled with other Herbs, proper for this Difeafe.

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It wonderfully helps Difeafes of Difeafes. the breft, and those that spit bloody of the matter. Alfo for fhort breath, and Thorax. other inveterate Difeases, if a de Short Wind, coction of it be made with Sugar, and the Stomach being first purged, it be taken for some daies together. So the leaves of Tobacco, boyled in water and Sugar put to the decoction: Or rather juyce of the leaves preffed forth, and boyled into a fyrrup, Apozeme or Julep, taken daily upon an empty stomach, two or three ounces at a time, abates the An old difficulty of breathing, and an old Cough.

cough.

my, corrupt humours; but the fick must be first well purged, and generally his body must be well emptised by Physick. Also a Syrrup may be made of other pectoral means, adding the leaves of Tobacco to them, or Liquorish, Reasins, Jububes, Figges, Prunes, Dates, and Herbs sit for this use; as Maydenhair, Scabious, Horehound; and the like.

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Take Maydenhairs white and black, Horehound, Coltsfoot, of each one handfull; Tobacco leaves two or three, Reafins without ftones, whole Barley of each one Pugill; Liquorish scraped two drammes; make a decoction to a pint, sweeten it with Sugar and Honey what is sufficient.

Another that attenuates and cuts more: Take Scabious, Horehound, Maydenhairs, Wall-Rus. of each one handfull and half, Figgs ten, Reasins one ounce; Tobacco leaves five, Liquorish scraped two drammes; make a decoction in a pound of Honied water, until two parts be consumed:

funed; Adde to the fraised Liquor of simple Oxymel, Syrup of May-deshair, of each two ounces, Oxymel compound one ounce, mingle them.

Water of Tobacco, with Eybright water, drank daily upon an empty : Romach, doth the fame ; as Doctor Farnaciu Governor of Rechel bath proved, who was an intimate acquaintance of Nicotilm, and private to the counsels and bufineffes of the French King, and whom he chiefly defired to communicate the Knowledg of this Plant to. This man being at a Banquet of the Kings, with the Embassodour, professed that by this means he cured one of an Afthma. I (faith Nicolans Monardin). observed some men (troubled with an; Afthma, returning from the West-Indies or from Peru) chawing Tobacco leaves in their menthes, and fwallowing the juyee of them, to make them; Spit forth corrupt matter : but though these men were drunk by it, it appears they found much good by it, to bring out matter and flegm shat Buch in their ftemache.

The

Ule of the Tobacco.

The day powder of Tobbacco perpowder of forms the fame, if you hold as much of it as you can take between the top of your fore finger and thumb, at the root of your tongue , near your palate (taking care that you fwallow not the powder) for in a fhort space you shall perceive great plenty of flegmatique humours to run forth at your mouth, and this will endure untill that you may fill a fmall difh with flegme. When you think this watry humour is come forth in fuf. ficient quantity, wash your mouth with some good white Wine: Do this every morning upon an empty ftomach. If this be to troublesome, do it every third day, alwaies according to art, premiling univerfals.

Stomach pain,

The same way it is profitable for the Difeases of the Breft, and the parts adjoyning, as the Lungs, Wefand, Throat, offended by afflux of hamours.

It is wonderfull good for pains proceeding from a defluxion of humours upon the mouth of the flomach, or bred there; and for all

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old paines of it, or preternatural long-during paines of the Reins, and for contractions of parts, from chronical and latting Difeases, to chew the powder of dry leaves of Tobacco in the mouth, to make an Apoth'egmatism with them.

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The women of the Wek-Indies Crudities, mightily commend the leaves of To-bacco, because they take away the crudities of the fromachs of young and old; and dispell winds, reftore concoction, soften the belly, if it be first annointed with oyl of Olives; and the leaves being made hot under hot embers, be applyed to the region of the belly, and be renewed as oft as occasion is: The assessment not be wiped off, but more must be laid on to make it more effectual.

Also, if you lay the said leaves so Surfeit, prepared, to one that is surfeited with meat or drink, you shall very much remove his Crapula, and repletion. The same reason serves for the powder of the dry Herb, if you put so much of it as you can hold between your singer and thumb, into a spoonfull or two of Aqua vita when

when you go to bed: For it takes away your furfet, and makes you fleep, and refolves flegm.

Swound-

They that swound away, presently recover their former strength, if the smoak of the leaves come into their mouthes or nostrils, drawn by a Pipa or Reed.

The Co-

Tobacco wonderfully helps the torments of the Guts and Belly, and pain of the Colick, and other paines proceeding from wind, or cold, if you lay the leaves on very hot, and change them often, untill the pain shate.

The powder of the leaves dried, is good for the same use, taken in white Wine, or some other liquor when you go to bed, about half a dram or a dram weight, or thereabouts.

The Iliac.

The leaves pfed the fame way, cure the wringing of the small Guts, and it is proper to put this Herb with others in decoctions for Clysters, as also to use them for Plasters and Fomentations, that will do great service,

For Example, take Mercury, Rue, Marth Mallows, Little Centaury,

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of each one handfull Hylon, Cala 4 mint. Wormwood of each one handfull and an half; Tobacco leaves fix, roots of Marth-mallows balf an cunce: Linfeed, Fenegrek, of each three drams; Cumminfeed, Annifeed, of each one dram and half: let them boyl in fufficient quantity of water, untill the third part be confamed, then take of the liquor boil'd and frained, one pound; Hiera Picra, half an ounce, Benedilla Laxativa fix drams; freste Butter, Honey of Rofes firained, of each fix drams; Oyl of Rue and Dill of each one onne and half; common Salt one dram: Mingle them all, and make 'a Chyster: The Li-

If Tobacco leaves be diftilled with ver. Fumitary, it wonderfully helps all Difeafes of the Liver : But abferve! you must cake less quantity of Fumitary then of Tobacco.

The juyce of the leaves of Tobac- Spleen. co, bruifed with a little Vineger, or the Oyntment of them rubbed in the morning upon the place of the Spleen obstructed or hardened, from a cold cause, softneth and dissolveth it; but after annointing, you must apply

The

ply a leaf to it roafted in the embers, or a cleath wet in the juyce of the leaves. Others use instead of this, unguents proper to this Disease with which they mingle the juyce of the leaves, and adde also the leaves themselves; and by this means it is found out, that hard and inveterate humours may be disloved.

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The Dropfie,

The diftilled water drank daily upon an empty fromach, wonderfully helps hydrophical persons. Moreover, if you put the dry leaves of Tobacco upon the live Coles in a Kettle, and so rofte them, and draw in the moke of them by your mouth, with a Pipe or Reed or Tunnell haveving your head and throat close covered, you shall spit out so much flegme, and clammy humours, that you shall be so lank, as if you had fasted a long time. Wherefore it seems that a Dropsy not yet confirmed may be cured by this fume, fince it chiefly doth good to Athmaticall faort winded people, and fuch as are vexed with an old cold, and with Rhumes: for it makes them to spit out much thick and clammy matter. The

The juyce of the Leaves of Toline- Worms. co Clarified, and with Sugar dande into a Syrup, and taken in the Moraing in a small quantity, drives forth Stomack and Belly Worms; yet you must bruise the Leaves and wrap them in a Cloth, and lay them to the Navel of the Patient, and give him a Clyfler of Milk and Sugar.

Also the powder of the same alone Emrods. or mingled with other Lenitives, is a prefent remedy for the Emrods : for

it perfectly cures them.

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The Leaves hear under the Embers Womb. as I shewed before, do with no less force drive away pains of the Matrix, if they be laid to the Navell, but it must be first Announted with Oyle wherein the juyce of the Leaves is boyled. But the fuffocation of the Suffocari-Matrix is taken away, by receiving Matrix. the fume of the Leaves by the privities.

Hip Gout itabated, if you rubit Sciatica. with Oyle of Oliver, and apply one Leafe of Tobacco Roked at the fire.

This is good for any Gout coming from Cold; Some bid the Patient chew

chew every Morning falling form of che caves, to free him from pains of the Gout. This will draw much Flogme into his Month, and hinder it from running down upon the lower parts wherefore the powder of the dryed Leaves will preferve men from pains of the Gont of the Feet that came at certain times, if they are to Sauff up this Rowder often into both Noftrib. Likewife they that are now in pain with it, fhall manifeftly find an abatement of it, and the Diftale to deline sif they Snuff up the Powder into their Nofes , and in time often using it they will be freed from it. . Alfo the Powder may be held in the Mouth inflead of an Apophlesmatifm : for either way it draws much Humours from the head, and directs them from falling down upon the parts affected, by reason of De-Auxions.

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Laftly. The fresh Leaves of Tobacco, laid on hot to resolve the cold are good for any part of the body ast fected from a cold cause: for they take away the pains, and forcibly resolve them; either applyed by themfelves. felveit or with other Remedies, good for the fame Difeases, where there needs firong refolving meads; ad box

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Take Sagapennin; Adeliam, Grindeliver, of each one Drame diffolve them in Vinegar, and about the end adde of the Leaves of powder of Tobacco dried one ounce, Oyle of Camomile one once, wax what is fufficient; make a Plainer according to are for this most powerfully refolves, and abates pain; Alfo you may make it the Chies to me the fire and beat

Take Tacamahas , Caranna , of each three Drams; diffolve them according coart, in Wine, or a little of the Brongest Vinegar; after this adde powder of Tobacco fix Drame, Oyle of Lillies, and of Wall-Flowers, five Drams, wax what is sufficient make an Em-plaister according to art,

To these adde Tumours, Impo Tumours, ftames, Inflations, and Childrens kibe ftumes, heels, or any fort of Itch; for the Kibes. Leaves of Tobacco laid to them, or the juyce warm, with Rags, or Lint wet therein cure them , for they refolve the Humours and ease the pains.

To cure Kiber, the part affected must be Announted with the juvce and be rubed with Linnen Raggs; but first, putting the Feet or Hands, if the cold be in them, into very hos water, wherein you have put a little Saft for this is often proved to do good. baccouling our conce, O

For Burns, It is tried that Tobacco will cure Burns: A certain drunken Companion had a Glass of Beer in his hand, and he flumbling, and loth to break the Glass, fell into the fire and burned his hand. Women taid their heads together, and theyeafter an howre or two, laid on fome Clay. This did no way eafe the pain; for he could not fleep by day nor by night, wherefore being no longer able to endure the pain, he comes to a Matron of Antwerp, and asks her advice, who, as he had heard, knew the Vertues of Tobacco. Shee frewing the brims of the burnt place, with the powder of Tobacco, attempted to help him, but for three daies little good was done by it. When therefore he grew impatient, he murmured at the Woman fecretly, because he came to her

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ne to her her to be cured, and Shee went to make experiment of the Vertues of Tobacco upon him, and he commanded that fuch Medicaments as are gentle should be applied : but the pain being nothing leffened with this, he comes back to the Matron, desiring her to go on with the cure as Shee began, and Shee (as Shee was a very good Woman) firewed the Powder on again, and in three daies made him well.

Moreover, for inveterate Wounds, Old malignant cancerous and spreading Wounds, Ulcers, Scabs, Noli me tangere, Itch, malignant Tetters, Scrophula's, Bubo's, Impo- and canflumes, fleshy Excrescences, and cerous the like almost innumerable Difea. Ulcers, fes, it is very effectuall, if the juyce Scrophubeapplied with rags or lint.

Green Wounds, if they are not to Green deep, are cured in one day, by the Wounds, juyce of the Leves and Lint. But if the Wound be very deep, it may be washed with Wine, and be bound with bands wet in the juyce. And it is excellent to heaf a Wound quickly, to wash it with the juyce of the Leaves, the Inflammation being over.

Not

Not long after that the Embassadour came to have the knowledg of Tobacco at Lisbon, one of his Cooks had almost cut off his whole Thomb; the Steward presently runs for Tobacco, which being fometimes applied to the Wound, the Cook was well cured; And thus this Herb grew to be fo much escemed at Lisborn, where the Court them was, and it began to be called the Embassadours It is as good for contusions and all harts, to which nothing elie userh to be applied besides the juyce with Rage, and the part affected muft be swathed with a Roller. But diet must be chiefly ob erved, and if need be, the Patient must be well purged, and this is often proved good.

F'ux of Blood.

Tobacco hath notable force to flay blood running forth immoderately from a Wound, or from the Nostrils, or from any hurt, only applying the juyce with with Lint to the Wounds, has the juyce must be fin fled up into the Nostrils, or the Powder must be drawn into the Nose by a Cane or Tunnell.

To cleanse and heal foul Ukers of

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the French Pox, and in dainty peo. Sordid ple; especially if the part that is Ul- Ulcer of cerated be of exquifite feeling, the the Pox. decoction of Tobacco in a Gargarifm is very effectuall, or mingled with other things. Such a remedy you find in the small Book of Julius Palmariw, concerning contagious Difeafes : Take two pugils of whole Barley. Agrimony . Tobacco . tane, Chick-Weed, Red Rofes, of each one Handfull, boyl all in foure Pounds of water to three Pounds, and fraineit, then mingle with it Honey of Rofes, and Syrup of dried Rofes, of each three Ounces, burnt Allum, burnt Vitrioll, of each half a Dram; This Remedy is very abstergent and drying and cures Ulcers.

The falling off the hair of the head, Old ulold corrupt Ulcers of the Arms, Legs, cers.

& other parts, and ready to Gangreen,
are by this brought to Cicatrize if they
be first wisht in white wine or Urine,
and wiped with a wet Cloth, with one
or two green Leaves of Tobacco
bruised, and be made moist with the
juyce of it, which may also be used
alone, and bound on with a Swath of

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Linnen; this being continued for some daies, makes them perfectly well. If green Leaves be wanting. ftrew upon the Leaves the Powder of the dried Herb, but the Patient muft first be Purged by the Physician, and if need be, a Vein must be opened, and and a good Diet observed. Yet les no man be difmayed, if he fee the Sore grow bigger by degrees; for fo all faulty flesh is consumed, and good flesh will come in the place, without Chyrurgery or use of any other Medicament.

A certain Noble Man, who was A speck on Father to one of the Embassadours the Face, Pages, hearing the report of this Plant, came to Lisbon, he had an eating Ulcer upon his Leg for two whole years, when he had for ten or twelve daies used the Plant as the Embaffadour directed him, he was well cured and returned home.

A certain young Man bad a foule eating Ulcer hard to be cured upon one of his Cheeks, and it began to feaze upon the griftle of his nofe. He firft made triall of this Herb, without the Embassadours knowledge, wherefore

fore applying Lint with the juyce of the Leaves rothe Ulces, he found incredible help by it. Which when the Embassadour understood by another of his Pages Kinfman to the other that was in this Case, he called the young Man to him, and he observing for eight daies the same way of cure. rooted a Nolime tangere quite out ; but in the mean while that he was curing of him, -he fent him to the chiefeft Phyfician of the King of Portugall, that he should fet down the order of his cure; and he being eight daies after called for by the Embassadour to look upon his fore face, he professed openly that the Noli me tangere was quite killed and dead, and it was more clearly known by that, because the young Man complained not any more of a pain of his Cheek.

A Woman had a horrible Tetter in her Face, you would think Shee Painted, and Shee was cured in eight daies by help of Tobacco, and departed home, giving great thanks to the Embassadour before abundance of

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one Memorable example which Monardas relates in his book of simple Medicaments, brought from the new found World. A Matron faith he that had the charge of a Knights Daughter of Spain, remembring what I had faid concerning the Vertues of Tobacco in the audience of many People, undertook to cure the Child committed to her Charge, (whose Head was overrun with a foule Scall, and to whom I and others had applied many Remedies in vain) with Tobacco, which Shee fetched of me, nor did Shee loose her Labour. For when Shee had rubbed the Scab fo sharply with Tobacco Leaves, that for pain the Child fainted often away the same day, the day following, not regarding her crying or pains, Shee rubbed the Leaves on again, untill fuch time as the Scals falling of by de. grees, the Girls was cured, yet when Shee faw the Scals fall, Shee rubbed her Head fomething more gently.

For Scro.

A Captain of Souldiers, who had a Sonne miferably afflicted with the Kings Evill, was refolved to fend

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him into France, (because the common opinion is that none but the King of France can cure that Difeafe) this Captain came to the Embassadour, who made tryall of Tobaco in this case, and in a very few daies, he cured the Boy of his Difeate; The way of cure is this. Apply Lint wet in the juyce of Tobacco, taken from the bruifed Leaves, but do it nine or ten times.

If a man apply the juyce of Tobac- For the co or Lint wet in it, or the green flingingof Leaves bruifed with his hands, to any Nettles. part of the body flung with Nettles, he shall presently perceive the pain

gone, and the part cured.

It is good to cure Warts, if you Warts, lay the juyce with Lint upon the Wart, making first an open place in it with your Pen-knife untill the Blood come, or elfe Annoynt the place only with Unguent of Tobacco, this I know to be true; and may be it may do the same to Corns that Corns. grow upon the joynts of the Feet.

So also the juyce of Tobacco ap- A Plagu. plyed to any pestilent Carbuncle is a Carbunpresent Remedy. cle.

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Veno. mous ftings and bites of

Also used the same way, it is good for Venomous Stings, Pricks, and Bires. So it heals the Bitings of mad dogs. Mad Dogs, if it be applied prefently in a quarter of an Honre after the bite is given.

Poyloned Weapons.

Against Poylon,

It is good also for the Indians calked the Carybes; for it is a fingular Antidote for the venomous weapons of their Enemies. For when they go to Warre they carry with them two hoofs of bearts, in one of them there is a present Venome, which fo foon as it Wounds but the skin. that it may come at the Blood, it brings present death : but in the other they carry the juyce of Tobacco, and applying this, they are freed from Death, as experience Witnesseth: If they have no green Tobacco, they use the dry, or beaten into Powder. The Carybes Indians, in the Province of Savina. Were the first that ever made triall of this, when in a Battle they were many Wounded and Kil-For when as they were wont, to cured venomed Wounds with Sublimate, for want of that they used the juyce of Tobacco presfed

fed forth of the leaves, and this prefently took away the pain, and made them well; tryal hath been often made of this in Spain.

Moreover, the leaves and juyce of Fer Cat-Tobacco, applyed with lint, cures telall hurts that befall bruit Beafts; and kill the worms in foul Ulcers, and all creeping Ulcers, like as sublimate doth.

Also this cures hard flesh, growing Hurts of upon the legs of Cattle, and Pack- Horses or horses, whose backs are galled with other burdens and Pack-faddles, or if they Beafts by be more hurt, though the wound or galling. wounds encline to a Cancer: only apply the leaves or juyce with lint, or use the dried Herb. They will be so well cured without any other Medicament, that you need not to forbear your Journey.

Tobacco is an Antidote against Against Hellebore. The Hunters of Spain Hellebore are wont to use Hellebore, because it is a present poyson to kill Deer, and wild Beafts. The Catholick King to try the truth of it, bad a Hunter to hurt a little Dog in the throat, and to put Hellborne into the wound, and by

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An Expe- by and by after, the juyce of Toriment of a bacco upon lint, and fo to bind all Dog poy- up, and the Dog received no harm, loned. to the wonder of them all.

An Expe-Venome.

The like happened last Winter at riment for Antwerp, where one gave to a Cat, of a Matron of the Town, a Bolus mingled with venome, because the Cat was to fierce. After this, the Cat could flay no where, but ran up and down, and tryed in vain to vomit up the poyfon; the Matron observing this, found a way to open the Cats mouth, and to thrust in a little Ball of Tobacco, made up with butter: The Cat presently after, caft up the poylon and escaped death.

The wie Tobacco.

Thus much for Male Tobacco ; of Female but the use and faculties of the Female, are almost the same as of the Male: and when the Male is wanting, we used the Female (as I have directed you before for the Male) to care by.

To cure Breafts with Cancers.

Observe this, that the leaves of the Female Tobacco are good in decoctions for Clysters: They are excellent against Dysenteries, and the

Balfam

Balfam of it yeelded to no Medicament to cure a Cancer, especially of the Brefts.

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The third fort of Tobacco, which The third fome call black, others yellow Hen- fort of bane, is contrary to Tobacco in na. Tobacco. ture and qualities, and therefore they doill, that foolishly use it for the true Tobacco. Yet it may ferve to revulse hot humours, and in part to resolve hot Impostumes; also in a Cancer it may reftrain the heat of black choler. Johan. de vigo. capite de hernia useth Henbane to resolve humours. It is frange (faith Monardus lib. 3. of simple Medicaments, that are brought out of the new world) what notable vertues and faculties are daily discovered in Tobacco: For besides those related, I can (faith he) relate as many were, which I have heard others freak of, and I my felf have ob-Terved

The juyce pressed out of the fresh The forleaves of Tobacco, and drank the ces of the quantity of two ounces, vehement- Tobacca, ly purgeth water and flegme above and beneath, and therefore it is profitably given in Dropfies and the Falling-fickness. Alfo

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The diftilled water,

Alfo, water is diffilled from the leaves of Tobacco cut in pieces, in a glass Limbeck, which is afterwards rectified in the Sun. This is almost as good as the juyce of the Plant, chiefly for Wounds, Tumours, Kibes, and for nails that fall off from the fingers of themselves, if the water be but poured into the part affected, or now and then a lint or cloath wet in it and applyed.

Leo Snavins bids us gather the leaves in fuly, bruise them, and distill them in a double Vesseil with glass Instruments, presently set it in

the Sun, and keep it a year.

This water taken faiting, the quantity of an ounce or an ounce and half, is good for an Asthma, and an old cold.

Oyl by Infusion.

The Oyl by infusion is thus made. Take the leaves torn or cut in pieces, boyl them in Oyl Olives, which will be coloured; press it for h rejecting the leaves: then insuse fresh leaves, and expose them to the Sun in a Violglass, or boyl them untill the juyce be consumed; this is good against Scabs, Wounds, and Ulcers: It cures pains

pains of the head, and foulness of the skin.

Alfo, Oyl may be drawn from the Oyl of Seeds of Tobacco, which drank in a the Seeds. fmall quantity, is excellent against venome and bites of Vipers.

Distilled Oyl is made by descent Oyl di-(as the Chymifts call it) is a Glass

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Salt is made by the Art of Chy- The way miltry from Tobacco, and both of Salt of it. thefe, namely the Oyl diffilled, and the Salt far exceed the leaves or juyce, the powder, or diffilled water, to cure Difeafes ; because the moft thin and excellent effences of it, are separated, which are better then the terrefiriall matter; for thefe are the next and immediate feat and subject of the faculties themselves. Let no man despise or scornfully laugh at the name of Effence ; for Galen ufed it, explaining the thing very fitly. For I understand nothing else then he doth, when he faith, that some Herbs we of a more thick; thin, or fiery nature and effence then others are.

Pacobus Goborius of Paris, thews the way to make Salt of Tobacco,

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The first

thus. Calcins Tobacco, diffolve the Calz. ftrain, filtrat, evaporate it; there will be a Salt which will do no harm in a Caustick, and not so Corrosivein diffolving malignant Ulcers; wherefore this is the common way to extract Salt from all Vegetables. Burn the Herb in the fire, the place being Swept clean with Brooms (some first fee it in the Sun, others dry it in the Shade) let it burn untill it flick together in a lump : Or if you proceed further to burn it, to burn it to afhes you shall have more Salt. Put the ashes into a glazed earthen Pot, and pour fair water upon them, and let it feeth fome hours at the fire : pour it forth into another Veffell. and when the dregs are fetled, ftrain it through a linnen cloath; fet the Arained liquour at an easie fire with few Coles, that the water may evaporate, and the Salt remain in the bottom.

Another way-

The next way is more curious. Burn the dried Herb in an earthen Pot covered, by a long and firong fire, until the aftes come to be pure white, and that is a fignit is perfect.

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ly calcined: then let it boyl in Rain or diffilled water in a Glass vessell, in sifted ashes; let it boyl untill a fourth part of the water be wasted, then let it stand a while: Pour it into another Glass, and putting in some new very fine Tongues to filter it, the pure and salt water will be strained into the Receiver underneath it. What is filtrated, must be evaporated at an easie fire, in a Glass Vessell, and the salt will remain at the bottom clear and oure.

The third way is the most exact: The third Gather the Herb green, and bruise it, way. distill the water of it by a Limbeck,

distill the water of it by a Limbeck, calcine the fæces at a moderate fire, the Vessell being stopt, untill they come to ashes. Let, the fire be gentle, that it may not consume the proper and radical moisture of the Plant, for that will make it run to glass; pour the water upon the earth of it, and it will thirstilly devoure it: Digest it in Horse dung, or in a Bath some daies. Pour it out as before, that it be not mingled with the sæces, then filtrat it, lastly evaporate what is filtrated. These are the various waies

to make artificial Salt, not only of Tobacco, but of all Vegetables that are prepared by the fire, and the use of them may be wonderfull in curing those that are dainty, and such as abnorre all Medicaments, putting that Salt in their Broth, or Salt-seller to season their meat.

Compound water.

To this may be referred what the famous Physician and Philosopher of his age Lona dus Fioravantus hath witten in his Phy ficall Observations. I took (fath he) Tobacco, with Seed and Root, and I stamped them all: the leaves weighed LIV ounces. I hid them in Horse dung to ferment thirty daies, and that they might not corrupt, I put some salt to them, and fix ounces of aqua vira ; then I diffilled them in Balneo Maria, until all the moifure were drawn from them, and that it might keep the better; I added fo much Oyl of Brime flone as might make it take sharp. I used this composition in many things. In all Feavers, a Spoonfull drank cured them : Wounded men, if they trank it, or annointed their wounds with it, they were cured to admiration.

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Oytments are made of Tobacco divers waies, though the Herb used by it felf is far more effectuall.

Take the fairent, greateft , greeneft Oyntment mon rofiny leaves of Tobacco, freed of Tobacfrom all filth and duft diligently, that co are no waies wet with Rain or Dew. one pound ; bruife them with a Pestle in a Morter of Marble, or of Wood: half a pound of Hogsgreafe prepared, that is purged from all its skins, and melted in a brazen Vessell : to this must be added the juyce of Tobacco, and the thick subftance bruised : Let them boyl together upon a Trevot in a brazen Pot, with a very small gentle fire, namely live Coles being put under the Trevot, or else in Balneo, untill you fee the watryness of the juyce to be vanished and gone, and the unguent brought to a Confiftence. Or an Otherwise unguent may be made of the manifold infusion of Tobacco, in Oyl of Roles, three or four times renewing the leaves in Balneo; and when you press it out, adding so much of the juyce of the same Herb, and wax what may fuffice, and make an auguent

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according to art. Or thus,

Otherwise

Take juyce of Tobacco, one pound, common Oyl, new Wax, Rosin of the Pine-Tree, of each two ounces; Oyl of S' Johns Wort, one ounce: Let them boyl at a gentle fire for three hours; strain it, and adde to it two ounces of Turpentine. Boyl them to the consistence of an unguent. It is good for old Ulcers of the Pox, Scrophulas, Ulcers or Spots contracted by the fire in Winter. Kibes, chaps of the hands; especially if you rub the part affected first with the green Herb, and put it into bot salt

faid unguent.

Otherwise Take Pitch, Rosin, new Wax, Turpentine, of each three ounces. Let them melt and boyl together in a brass Vessell with live Coles under it; when all are melted and boyl'd, then adde of the juyce of Tobacco and bruised substance, one pound; let all boyl together five or fix hours at an easy fire, upon a Tripod in a double Vessell, that is a Kettle full of boyling water: move them constantly, untill all the watryness be consumed, and the

water, and after anoint it with the

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the reft be thickned to an unguent : then press them out through a thick hempen cloath, and put them sgain into the brafs Skillet, adding half an ounce of Venice-Turpentine yet let them not boyl, but firre them carefully, then let them cool, and keep them for ufe.

Take leaves of Tobacco bruifed, Otherwife one pound; Yellow Wax, Turpentine, Oyl Olives, Pitch, white Rofin, of each three ounces : Let them boyl together two hours in a new Pipkin, to the confiftence of an unguent, then use it in a small quantity,

ipread on leather or linnin.

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Some there are that in both descriptions do not adde the juyce of Tobacco with the thick fubftance, but they only strain it, and crush it through a thick cloath; and they referve the juyce alone, which is not the best way. But the first unquent is farmore effectual for Wounds, cancerous Uleers, Tetters, Itch, Knots upon the face; because it hath a greater force to refolve and cleanse away, which is the property of Tobacco, if it be not hindered by other

things that are joyned with it. The latter is better to heal wounds, and repair flesh; to resolve Impostumes, to ease paines, and such like Operations.

But it seems needless to Jacobiu Gohorius, to adde new Wax, Rosin, common Oyl, Turpentine; because one of these is sufficient for the clamminess of Tobacco. For such an heap of Simples that are in that Oyntment, make the Oyntment only sit for Wounds, which otherwise is good for cancerous Uieers, Itch, Imposthmes, Tetters, and other Maladies. It is no reason also, so to waste the juyce of Tobacco, that nothing should remain besides the bruised substance, and strange Ingredients.

Another against Wounds with Gunshot.

It will not be amiss to set down an unguent to cure wounds made with Gun-shot, and fit for all other purposes; the proper making whereof is taught by Josephus Inercetanus. Take the juyce of Tobacco, one pound, Turpentine five ounces; compound Oyl of St Johns Wort, eight ounces; the best white Wine,

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half a pound; let thefe digeft for eight daies: afterwards, boyl them untill the Wine be confumed, then adde Colophonia, Wax, of each three ounces; Mummie, Amber, of each two drams; melt them again at the fire, and make an unguent according to Art.

facobus Weckerus teacheth to make Another an unquent against the Scabe, thus : for the Take the juyce of Tobacco, one Scabs. ounce and half ; powdred Brime- for stone, Salt, of each one ounce; Oyl Wounds. of Tobacco, Oranges, of each two ounces; Oyl of Wax, Goats suet, of each two ounces; make an un-

quent according to art.

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Jacobus Weckerus faith, That he Balfam of received another unquent from a Tobacco. Frenchman to cure wounds. Take juyce of Tobacco, one pound; new Wax, Pitch, Rofin, common Oyl, of each two ounces; boyl all together untill the juyce be confumed, then adde Venice Turpentine, three ounces; strain all through a linnen cloath, and keep it in a Box. This cures Wounds and Ulcers certainly. Adde to all this, that a most fragrant Balfam

Balfam is compounded of Tobacco : Take as many leaves of Tobacco as vou please, bruise them in a Mortar, and press forth the juyce; cast away the gross body, and fer the juyce with an equall part of Oyl of Olives in a glass Viol in the Sun for a long time; Rop the glass close with Gums and Wax, and fasten it with a found skin of leather : Or if you like it best, set it in a Kettle full of boyling water, or in Balneo, or hide it in Horse dung, and leave it there full forty daies, renewing the dung fometimes; when the forty daies are ended, you shall find a Balsam in the Glass, no lefs effectual for all Caufes, then the Quinteffence of Tobacco it felf.

Another of Gunfhor.

Quercetanu describes another kind forwounds of Balfam for Wounds made by Gun fhot, after this manner. Take the glewy fubstance of Tobacco and Comfry, of each four ounces; Oyl Turpentine, one pound; Flowers of S' Johns Wort, and Mallou's, of each two handfuls ; Elm-tree, Aples, three ounces; of the poplar buds, four ounces; Spirit of Wine, one pound and half: Digeft them in Horfe-dung,

or leave them in a hot flove, in a glass Vessell, well flopt for a whole moneth; then press them, and strain them forth: Adde Frankincense, Mastich, Myrrhe, of each two onnces; Dragons Blood, half an ounce; Mummie six ounces, Terpentine half a pound, Benivio one ounce. Circulate them together in a Pellicane for eight daies, then distill of the Spirit of Wine, at a moderate fire, and there will remain in the bottom a most precious Balsam.

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